

Digitized by the Internet Archive
in 2013

Course Catalog

http://archive.org/details/coursecatalogs1900mont_31

REF

LD

3780

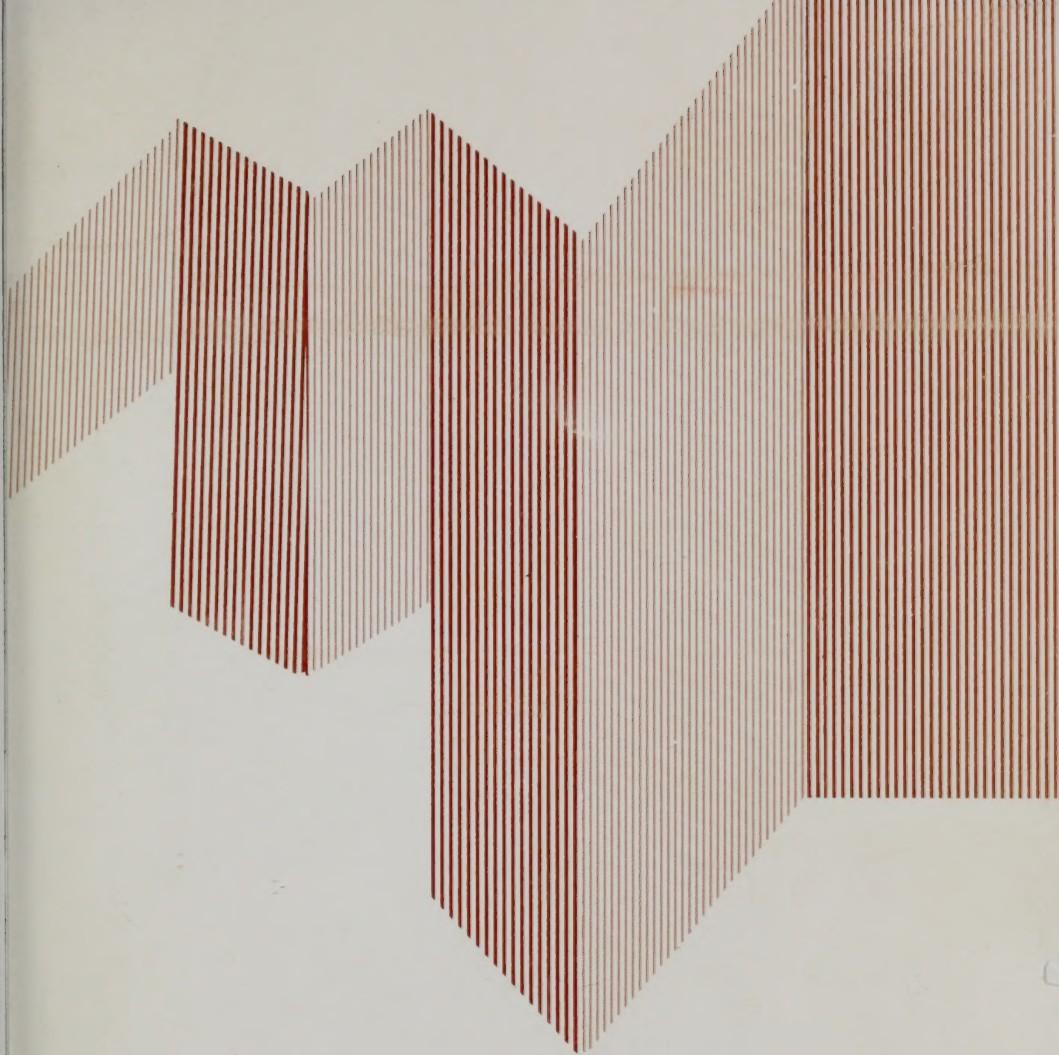
.N3

A12

1975-

1981

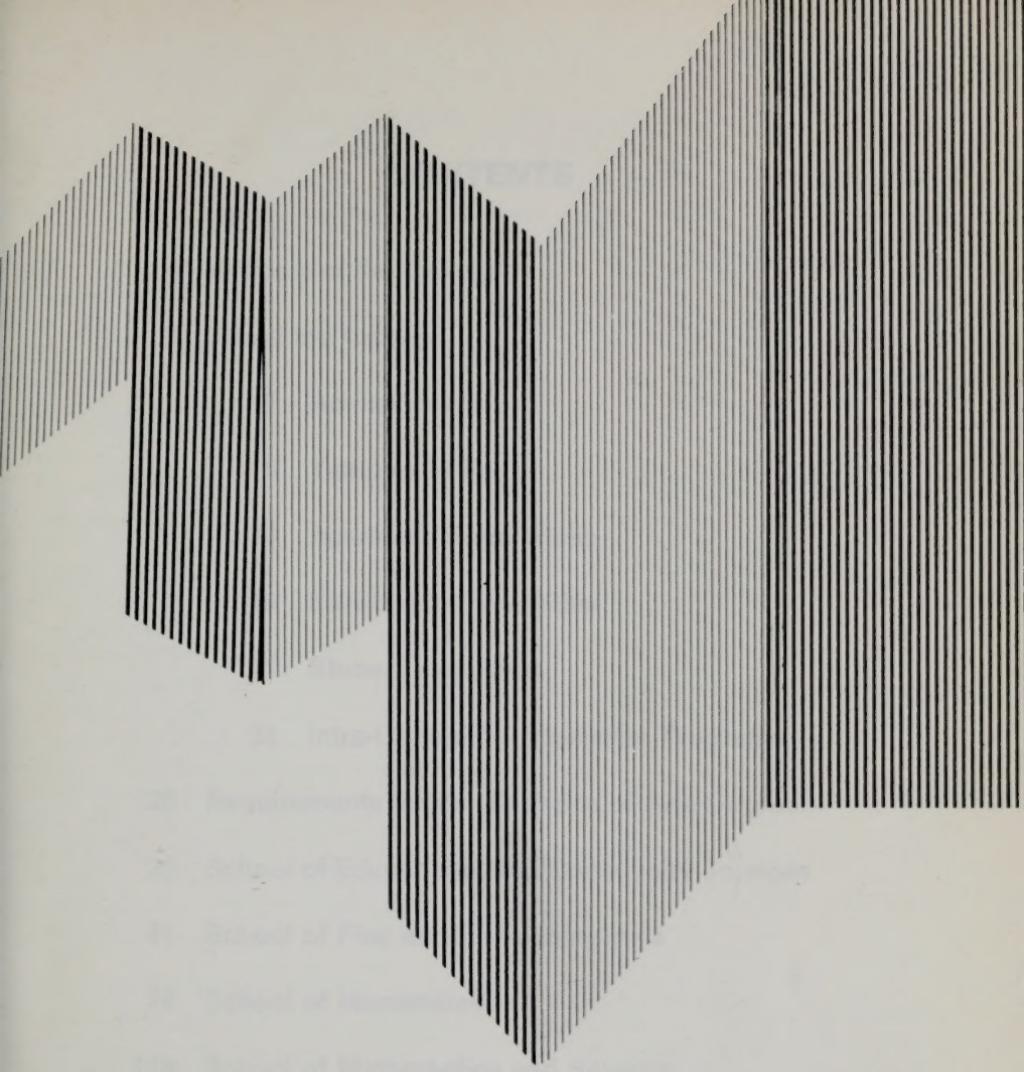
C.1



MONTCLAIR STATE COLLEGE
UNIVERSITY OF NEW JERSEY
AT MONTCLAIR, N.J.

Undergraduate Catalog
1975-1977

Published by the
Montclair State College
Upper Montclair, N.J. 07043
Volume 68 Number 4



MONTCLAIR STATE COLLEGE
MONTCLAIR, N.J.

Undergraduate Catalog
-1977

Laurens County

1835

CONTENTS

- 4 Officers of the College
- 5 About the College
 - 7 Admissions
 - 9 Tuition and Fees
- 11 Academic Regulations
- 19 Services and Facilities
- 21 Student Activities
- 24 Intra-Collegiate Academic Programs
- 26 Requirements for the Bachelor of Arts Degree
- 29 School of Educational and Community Services
- 41 School of Fine and Performing Arts
- 74 School of Humanities
- 119 School of Mathematics and Science
- 144 School of Professional Arts and Sciences
- 188 School of Social and Behavioral Sciences
- 233 Faculty and Administration
- 248 Index

BOARD OF TRUSTEES

Chairman
GERALD A. LeBOFF

HENRY S. DYER

Vice Chairman
EDYTHE JONES GAINES

W. LINCOLN HAWKINS

Secretary
GLADYS C. HUNTER

ERNEST M. MAY

Ex-Officio
DAVID W. D. DICKSON

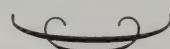
HECTOR S. RODRIGUEZ

DALLAS S. TOWNSEND, JR.

Faculty Representative, Robert F. Dorner

Student Representative, Kenneth Malmud

Executive Assistant to the President, Joseph V. Coaxum



OFFICERS OF THE COLLEGE

President
DAVID W. D. DICKSON

Deans of the Schools

Vice President
for Academic Affairs
IRWIN H. GAWLEY, JR.

PHILIP S. COHEN, School of Social
and Behavioral Sciences

HOUSTON G. ELAM, School of
Professional Arts and Sciences

WOLFGANG B. FLEISCHMANN,
School of Humanities

THOMAS L. WILSON, School of
Mathematics and Science

DONALD M. MINTZ, School of Fine
and Performing Arts

ERCELL I. WATSON, School of Educational
and Community Services

M. HERBERT FREEMAN
Graduate Studies

Vice President
for Administration and Finance
VINCENT B. CALABRESE

Dean of Students
LAWTON W. BLANTON, JR.

Vice Provost
ROBERT E. Mac VANE

ABOUT THE COLLEGE

Montclair State College is a publicly-supported institution of higher learning, offering programs on the Bachelor's and Master's degree levels to 13,500 students.

The College, founded in 1908 as a Normal School, now includes six distinct Schools and a Division of Graduate Studies.

Although the College is large, its individual Schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

Location

The College is located on a 145-acre campus in Upper Montclair, New Jersey, a suburban community fourteen miles from midtown Manhattan. As a result of this proximity to New York, students enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are part.

Accreditation and Memberships

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates are accepted for membership in the American Association of University Women.

History and Governance

From its founding in 1908 through 1927, the College was a Normal School, oriented to the education of public-school teachers. In 1927 it became the State Teachers College at Montclair, with the goal of preparing secondary-school teachers. Part-time and extension courses were added to the program in 1929, and the Summer Session in 1930. In 1932 the State Board of Education empowered the College to give graduate courses and grant the Master's degree. In 1958 Montclair State Teachers College merged with Panzer College of Physical Education and Hygiene, and offered a new major in health and physical education.

In July, 1958, the official institutional name became Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then the College has placed increasing emphasis upon the training of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers; at the same time it has maintained its traditional excellence in secondary-school education.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey, appointed by the State Board of Higher Education and confirmed by the Governor. The president of the College is a member, ex officio, and both faculty and student repre-

6 / About the College

sentatives are elected by their peers to non-voting membership. This change in governance, which took effect on July 1, 1967 gave the College increased independence in the management of its program.

Goals

Montclair State College is guided by the philosophy that the questing mind, creative thinking and dedicated discipline best characterize the educational process. Throughout its existence, it has been loyal to the basic aims of higher education: recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the college community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual within a technological society.

Since the establishment of the board of trustees, the College program offerings have experienced new directions. Today Montclair State College is a multi-purpose institution, offering a broad range of courses and programs to students with diverse needs, interests and career aims. Through extensive summer, evening and special programs, opportunities are afforded to students to pursue degrees in full- or part-time studies. There is a full-time faculty of 480.

Alumni Association

Graduates of Montclair State are members of the Alumni Association. Each year the Association Executive Board and the Alumni Director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni office is located in the Alumni House, 34 Normal Avenue, Upper Montclair.

Financial Support

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources. A variety of programs at Montclair State derive from Federal statutes or have developed with Federal monies. They include National Science Foundation, Outdoor Education, Training Teachers of the Handicapped, Distributive Education, Adult Education Resources, Head Start, Electric Stenography, Upward Bound, Experienced Teacher Fellowship Programs in English Education, Preparation of Urban Teachers, Program for School Psychologists and an Institute for Teachers of English as a Second Language.

College Development Fund

Although the State of New Jersey provides the basic requirements for all Montclair State students, the College Development Fund supplies, through voluntary support, the extra ingredients for a well-rounded education.

A Board of Trustees, consisting of friends of the College, parents, alumni, faculty and students, provides direction for this organization, whose activities include bringing distinguished cultural groups to the College, purchasing fine art and scholarly books, underwriting the cost of further study for students and faculty, and encouraging student and faculty travel.

ADMISSIONS

Montclair State College, as an equal opportunity institution, seeks applications from all qualified students regardless of race, creed or national origin. Requests for application forms and inquiries concerning admission should be addressed to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address, accompanied by a \$10.00 non-refundable fee.

DECISIONS ARE ANNOUNCED ON A ROLLING BASIS UNTIL ALL SPACES ARE FILLED.

Accepted students are required to pay a non-refundable \$100 fee by May 1, to hold their places in the class. Accepted students must also file a medical form which will be mailed to them. It should be filled out by a family physician, certifying the candidate's health and physical fitness.

Accepted students who have completed special examinations administered by the Advanced Placement Board of the CEEB, CLEP examinations, or other standardized examinations, may submit the results for advanced placement credit. The college may grant earned college credits and/or a waiver of required courses.

. Full-Time Freshman Admissions

Application forms are available from late summer through February 1. Full-time freshmen are admitted only for the September term and should have their applications on file by February 1. Notification is made on a rolling basis beginning in November.

Applicants should take the Scholastic Aptitude Test of the College Entrance Examination Board, no later than December of the senior year. Application for the test is made to the CEEB, four weeks before the desired examination date.

Achievement Tests are not required, but candidates wishing to demonstrate strengths in specific areas may submit Achievement Scores, taken no later than December of the senior year.

Applicants must present a certificate of graduation from an approved secondary school (or a High School Equivalency Certificate), showing the following college preparatory units:

English	4
American History, Problems of Democracy	2
Mathematics	2
Science	2
Foreign Languages	2
Electives in social studies, science, mathematics or foreign languages ..	2
Free electives	2
TOTAL	16

Applicants may choose a major upon application, or defer the choice until after the freshman year. In the case of a declared major, the admissions staff will give attention to the preparation and demonstrated interest in the major; appropriate Achievement Test scores may be submitted in application material or this reason.

Admission to physical education, fine arts, music or speech and theater depends upon successful completion of department tests, auditions or interviews.

In addition, candidates for the French department may be required to present themselves for an interview. These departmental requirements are the same whether the major is chosen before or after admission; candidates should be aware that it is possible to be admitted to the College and not to the department of one's choice.

II. Educational Opportunity Fund Admissions

Since Montclair State always has more qualified candidates than it can admit, students compete with all other applicants in the same category, primarily on the basis of previous academic success. As a result, many New Jersey students with good academic potential, but lacking competitive credentials, are unable to obtain a college seat.

The New Jersey Department of Higher Education attempts to equalize the opportunities for college admissions among all segments of the state's population through the Educational Opportunity Fund Act of 1968. The legislation provides monies for supportive services to help students realize success in college. They include:

- a. testing and assignment to a reading lab if deficiencies are discovered.
- b. financial aid, according to need and eligibility. Every student is expected to contribute toward the cost of his education.
- c. tutorial assistance in the areas of academic weakness.
- d. counseling at regular intervals.

EOF students must fulfill all requirements for graduation.

Candidates under the EOF program should file applications in the Office of Admissions before February 1 of the year in which entrance is desired.

III. Undergraduate Transfer Admission

Students who have previously attended another accredited college or junior college may apply for transfer either semester. The deadline for completing a transfer application is May 1 for the fall semester and November 1 for the spring semester.

Transfer applicants are considered for admission to a specific major only. They must have accumulated 15 semester hours of "C" work or better at an accredited institution **before** making application. Those presenting minimum 2.0 (C) credentials should realize that competition is heavy; special consideration is given to servicemen and graduates of junior colleges.

IV. Foreign Student Admission

Applications from foreign countries must complete an Application for Admission through the Office of Admissions.

Students from non-English speaking countries are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

V. Veteran Admission

The College is receptive to the special needs of veterans, who have their own set of deadlines (i.e. expiration date of benefits, early outs, etc.). Veterans are urged to seek information concerning admission to the College throughout the year. A veterans' counselor is available on campus to assist veterans with their post-secondary school plans.

VI. Part-Time Admission

Part-time applicants are admitted in February and September. They may take a maximum of 9 semester hours per semester in late afternoon and evening classes. A student may be provisionally matriculated without submitting SAT scores.

Part-time students wishing to transfer to the full-time day program must submit an application from part-time to full-time by the stated deadlines (see transfer admission) and must have completed a minimum of 15 semester hours before submitting the application.

TUITION AND FEES*

*Tuition (New Jersey Residents)	\$ 535.00
*Tuition (out of state)	1070.00
*Room and Board (estimated)	1400.00
Fees	145.00
Parking decal, insurance (optional)	30.00
Books, supplies (estimated)	225.00

*Subject to change without prior notice

Financial Aid

Realizing that success in intellectual pursuits can be adversely affected by economic difficulties, the Financial Aid officers provide financial assistance to aid students in realizing their potential. The assistance may be:

1. Federally-funded programs such as the National Direct Student Loan Program, the Cuban Refugee Loan Program, Supplemental Educational Opportunity Grants, Basic Educational Opportunity Grants, the College Work-Study Program and the Law Enforcement Education Program.

2. State of New Jersey assistance through the N.J. State Scholarship, the County College Graduate Scholarship, the Educational Opportunity Fund, the Student Assistants Program or the N.J. Rehabilitation Commission.

3. other sources including the N.J. Higher Education Assistance Authority Loan Program, the Social Security Administration, Veterans Benefits and the War Orphan Benefit Program.

Programs of financial assistance are revised from year to year and hence both eligibility criteria and the availability of funds may change. For information contact the Director of Financial Aids.

Special Awards, Funds, Scholarships

- Adelphes Club Scholarship
- B. Croce Education Society
- Bella Weiller Assistance Fund
- Clarence O. S. Howe Memorial Organ Fund
- Chapin Memorial Fund
- Caffrey Scholarship Fund
- Edward Russ Scholarship Fund
- Field Studies Fund

10 / Tuition and Fees

Grant Charitable Trust
John C. Stone Scholarship
Judge Esther Unterman Scholarship
Julian F. Jaffe Memorial Award in History
Katherine B. Hall Award
Margaret B. Holz Fund for Student Exchange
McEachern Music Fund
Malcolm Fairfield Fund
Margaret Shepard Memorial Scholarship
Mark Andrews Scholarship Fund
Marshall Lloyd Simonson Award in Creative Promotion
New Jersey Bell Telephone Company Scholarships
New Jersey Extension Homemakers Council Scholarship
New Jersey Heavy & Highway Construction Industry Fund
New Jersey Home Economics Association Scholarship
Phi Eta Sigma Scholarship
Richard Willing Scholarship
Scott Harris Scholarship
Scott & Dorothea Harris Scholarship
Teresa Farrell Scholarship
The Milstead Award
The Vincent and Dorothy Farrell Scholarship
William McLean Scholarship in History

Special Note to physically handicapped applicants:

All new buildings and other campus facilities at Montclair State conform to the American Standards Association guidelines on "Making Building and Facilities Accessible to the Physically Handicapped." Some of the older facilities have not yet been modified, although efforts are being made to correct deficiencies. It is recommended that applicants visit the campus to determine whether existing obstacles would impede their performances as scholars.

ACADEMIC REGULATIONS

Undergraduate Programs

Students may major in administrative science, anthropology, biology, business education, chemistry, classics, communication sciences and disorders, distributive education, economics, English, fine arts, French, geography, geoscience, German, health education, history, home economics, industrial education and technology, Latin, mathematics, music, philosophy, psychology, physical education, physics, political science, religion-philosophy, sociology, Spanish, speech and theater, or transcultural studies. Minor programs are available in certain arts and science areas.

Qualified students may major in one of the following teacher education programs: business education, distributive education, fine arts, health and physical education, home economics, industrial education and technology, Latin or music.

Students in arts and science programs who desire teacher certification elect the teacher education professional sequence.

Graduate Programs

Graduate programs leading to a Master of Arts degree are available in administration and Supervision, Business Education, Conservation and Outdoor Education, Distributive Education, English, Fine Arts, French, Health Education, Home Economics, Industrial Education, Mathematics, Music, Personnel and Guidance (School Social Work), Physical Education, Psychology, Reading, School Psychology Certification, Science, Spanish, Social Sciences, Speech Arts, and Speech Therapy. A Master of Arts Degree in Teaching is also offered.

Seniors may apply for admission to graduate programs during the semester prior to graduation. Those planning to matriculate in graduate programs at the College should take the aptitude section of the Graduate Record Examination.

Grades and Standards

MARKS for course work are given as follows:

A – excellent
B – good
C – satisfactory
D – poor

P – pass
F – failure
In. – incomplete work
Wd. – withdrawn

Academic standing is indicated by a grade point average based on A having the value of 4, B of 3, C of 2, D of 1 and F of 0. Grade point average is determined by dividing total grade points earned by the total number of semester hours completed. Transfer credits and grades of P are not included in the calculation of grade point average.

For sophomore standing, a student must complete 26 credit hours with an average of 1.6. For junior standing, 58 credits are required, with an average of 1.8. For senior standing, 90 credit hours with a 2.0 average. For graduation, 128 credit hours with a 2.0 average as well as 2.0 in the major. Transfer students must show a cumulative grade point average of at least 2.0.

Academic Honor List

The Academic Honors List, issued at the close of each semester, gives recognition to students with a 3.5 or higher semester G.P.A. providing a minimum of 12 credits are earned in courses that contribute to the G.P.A.

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently high on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Entrance Placement (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate Department Chairman and School Dean to determine specific possibilities within the area of their competence.

Independent Study

Students may take courses on an independent basis in accord with College procedures and with the permission of the instructor.

Foreign Study and Exchange Programs

Selected students, following the sophomore year, may be offered the opportunity to study for a year in France, Canada, Spain, Mexico or South America, through the Margaret B. Holz Fund for Student Exchange.

Selected students may study for a semester in Denmark at the University of Copenhagen, or at universities and colleges in Scotland and England.

Overseas Neighbors administers an annual student exchange with Graz, Austria, the sister city of the town of Montclair.

Attendance

Students are expected to fulfill all course requirements and although attendance is not always mandatory it may be desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor.

It is suggested that students ascertain individual attendance requirements from their instructors at the onset of each semester.

It is the student's responsibility to attend at least one class meeting of all courses for which he is enrolled during the first two weeks of classes to confirm his registration.

Final Evaluation

IT IS THE STUDENT'S RESPONSIBILITY to complete curriculum requirements as prescribed in the College Bulletin under which they entered or as subsequently modified. Graduation requirements include a minimum G.P.A. of 2.0 on a cumulative basis and also in the major. All questions regarding a student's program of studies should be referred to the faculty advisor or an academic counselor in the School. IT IS THE STUDENT'S RESPONSIBILITY to meet all graduation requirements.

Seniors who are eligible for graduation must file an Application for Graduation Form in the Office of the Registrar according to the following schedule: by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.

The student will be mailed a copy of his final evaluation, which will detail the requirements necessary in order to meet the intended date of graduation.

Students who will be eligible for New Jersey State Teaching Certificates must complete the application and pay the required fees (in the Office of the Registrar during the following time periods: March 15 to April 15 for June graduation; Oc-

tobr 15 to November 15 for January graduation; June 15 to July 15 for August graduation.

After the above deadlines, certification must be applied for through the Office of the County Superintendent, or local school superintendent if the student has a promise of a specific teaching assignment.

The fee (payable by check or money order) is \$20 for the first certificate and \$10 for each additional endorsement.

Credit By Examination And Experience

Montclair State College offers the opportunity to all students to earn up to sixty semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to thirty credits; thus the Bachelor's degree may be earned in three years. In addition to the general examination, there are also over thirty CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month. Montclair State College is a test center and an application for the Tests may be obtained by writing to:

CLEP Test Center
Office of Academic Affairs
Montclair State College
Upper Montclair, NJ 07043

High school seniors who take the Advanced Placement Examination of the CEEB should have their scores sent to the College for credit.

While attending Montclair, there is the opportunity to take a subject matter Challenge Examination for many of the courses at the college. Not all courses at the College are eligible for credit by examination.

Graduate Credit Courses

MSC undergraduates with a grade-point average of 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of course work for graduate credit.

A qualified senior must secure an application from the Division of Graduate Studies Office and have it approved by the Registrar, the chairman of the appropriate graduate department and the Dean of Graduate Studies.

The student must then register separately for these courses, and pay graduate tuition on a per credit basis, in addition to his regular full time tuition.

Admission of undergraduates to senior graduate courses does not imply future acceptance into the graduate program. This can only be achieved through the matriculation process. Any courses taken for graduate credit do not apply toward the under graduate degree.

Graduation Honors

Students graduating with grade-point averages of 3.45 or better for all undergraduate courses completed at MSC are recognized as honor students, providing a minimum of 60 credits are completed at MSC. Designations are as follows:

- Average of 3.45 – 3.64 cum laude
- Average of 3.65 – 3.84 magna cum laude
- Average of 3.85 – 4.0 summa cum laude

Probation

A student whose grade-point average for a semester, or cumulatively, falls below the 2.0 mark is placed on probation for the succeeding semester. Usually students are not permitted to remain in College for more than two consecutive probationary semesters. Each semester the Academic Review Committee reviews the records of probationary students.

Language Deficiency

Credit in a foreign language taken to remove a high school entrance requirement deficiency is not counted in the total hours required for graduation. Six semester hours of a beginning foreign language are usually required to meet a language deficiency.

Pass/Fail Grading

Students may take one course per semester on a Pass/Fail option. Ineligible courses are: Student Teaching, Professional Sequence, Methods courses, and courses counted toward completion of the academic major.

Courses taken in conjunction with special programs offering courses only on a Pass/Fail or Pass/No Credit basis such as Teacher's Assistants, Freshman Seminar, Reading Lab, and CCP may be taken in addition one regular course per semester on a Pass/Fail option.

Students may register for the Pass/Fail option by completing a form available in the Office of the Registrar prior to the end of the third week of classes for courses of one semester's length or the equivalent of this for short term and summer courses.

Physical Education Activities Requirement

Each student must take a one-semester, one-credit course in physical education. The Department of Physical Education specifies those courses that satisfy the requirement.

Prerequisite Courses

IT IS THE STUDENT'S RESPONSIBILITY to complete a prerequisite course before scheduling a dependent course.

Repeated Courses

A student should repeat a course he has failed as soon as possible. A student must repeat a failure if the course is required for graduation. When a course has been repeated, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally students may not repeat courses in which grades of "D" were received, unless they are sequential courses. These may be repeated only with permission of the Vice President for Academic Affairs. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated.

Course Overloads

A student should earn 15-16 credit hours on the average per semester. However, students are permitted to enroll for up to 19 semester hours. The Dean, at

his discretion, may grant overload approval not exceeding one 3 credit hour course if the student will have at least sophomore standing and has a 3.0 or better average for the semester just completed. Exceptions to this policy may be granted only by the School Dean.

Reduced Work Load

A full-time day undergraduate student who finds himself unable to continue on a full-time basis (12 or more semester hours) must gain approval from his school counselor to register for a "Reduced Work Load". Full-time day undergraduate students who have approval for reduced work load must submit this permission form at the time of registration. Tuition will be assessed on a per credit basis. STUDENTS OPTING FOR A REDUCED WORK LOAD ARE SUBJECT to ALL FEES PAID BY FULL-TIME UNDERGRADUATE STUDENTS IN THE SAME AMOUNTS.

All student requests for Reduced Work Load must be submitted with registration materials to the Office of the Registrar by the final day of Change of Program Registration.

Full-time day undergraduate students who are considering study on a reduced work load basis are cautioned that financial aid may be terminated or denied if they reduce their course load to 11 or fewer semester hours. Students who have State Scholarships, N.D.E.A. Loans, Basic Opportunity Grants, and/or Education Fund Grants must contact the Director of Financial Aid, Room C217, before adjusting their course load to 11 or fewer semester hours.

Summer Session Attendance At MSC

MSC undergraduates wishing to attend summer session at MSC must obtain a summer session registration form on which desired courses are listed. Undergraduates may enroll for a maximum of 9 semester hours during the six-week summer session although a lighter load is recommended. To be eligible for summer session, students must meet retention standards of the College at the time of registration and secure the signature of their School counselor on the summer session registration form. Courses for students without a major are reviewed by the academic counselor for non-affiliated students.

Summer Session Attendance at Another Institution

Students wishing to attend summer session at another institution must complete the appropriate form available in the Office of the Registrar and obtain the approval of their department chairman. Students without a major must obtain permission from the Office of the Vice President for Academic Affairs. Rules concerning transfer credit apply to summer work taken at another institution.

Transfer Credit

Students who have been fully matriculated at another college or university file applications for transfer admission through the Office of Admissions. The final decision in departments and Schools with performance criteria is made by the departments and Schools involved. When evaluating transfer credits, the College closely follows established guidelines of regional and national accrediting agencies.

Applicants who will have completed the regular program leading toward an Associate of Arts or Associate of Science transfer diploma may receive admission at the junior level, provided transfer admission requirements of the College

have been met. Transfer applications from students who have been in terminal professional or technical programs, and those who have not completed a county or junior college transfer degree program will be evaluated on the basis of the specific courses they have taken and their applicability for transfer credit.

Montclair undergraduates who wish to pursue work at another approved college or university for credit at Montclair must obtain permission of their department chairmen on forms available in the Office of the Registrar prior to enrollment in the courses they wish to transfer. Students undecided on a major obtain permission from the Office of the Vice President for Academic Affairs. Transfer credit is not granted for grades of "D" or "F."

Credits accepted for transfer are listed, without grades, on the student's permanent record and are not included in the cumulative grade point average. However, transfer credits are used to determine the student's year.

Official Withdrawal From Courses

Students who wish to withdraw from courses must complete a withdrawal form in the Office of the Registrar. Withdrawal from courses is allowed until the midpoint of the course.

Refund of Tuition and Fees

Full-time undergraduate and graduate students (12 or more semester hours) will receive a refund of tuition according to the schedule listed below only upon withdrawal from their full course load.

Part-time undergraduate and graduate students (11 semester hours or fewer) will receive a refund of tuition according to the schedule listed below upon withdrawal on a course by course basis.

IN COMPUTING REFUNDS, THE DATE OF WITHDRAWAL IS THE DATE ON WHICH THE OFFICE OF THE REGISTRAR RECEIVED A WRITTEN NOTICE FROM THE STUDENT.

In accordance with the New Jersey State Board of Higher Education Policy dated July 21, 1972, the following uniform schedule of tuition refunds is effective in all New Jersey State Colleges:

Tuition and service charges are refunded in full if classes are discontinued by College authorities.

ALL FEES EXCEPT THE REGISTRATION FEE ARE REFUNDABLE ON THE SAME BASIS AS TUITION.

	Percent Refunded
Withdrawal before course begins	90%
Withdrawal during first third of course	50%
Withdrawal after the first third until the midpoint of course	None

Withdrawal dates for short term courses are available in the Office of the Registrar.

If you register through the mail or in advance of Change of Program Registration but decide not to attend, under the above policy you are required to pay 100% of your tuition and fees unless you officially withdraw from the College. To ensure receiving a refund and/or credit of 90% against your tuition and fees, please follow the established withdrawal procedure prior to the first day of classes.

NO WITHDRAWAL WILL BE ACCEPTED AFTER THE MIDPOINT OF THE SEMESTER.

Unofficial Course Withdrawal

A student who **unofficially** withdraws from a course, changes a section assigned, or ceases to attend class shall be given a grade of "F" in the course.

Veterans

All Veterans who completed a minimum of six months active duty are eligible to receive 3 elective credits, one of which fulfills the 1 semester physical education requirement. Applications to receive these credits are available in the Office of the Registrar.

Withdrawal from College

A student wishing to withdraw from the College should see the Assistant Director of Students in the Student Personnel Office and complete an official withdrawal form. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible future readmission.

Incomplete Work

The grade "In" indicates that the student has not completed the course and that a grade is withheld until the work is performed and approved. It is the student's responsibility to make arrangements with the instructor to complete the required work. The "In" not replaced by a final grade automatically becomes an "F" by the end of the final examination period of the following semester (not including summer session). Exceptions can be granted only by the appropriate School Dean.

Minorities Culture Course

Montclair State College believes that a part of general education is awareness of the life of minority groups and their contributions to the nation's heritage and future. Therefore, students select at least one course related to minority cultures prior to graduation.

Residence Requirements

The final twenty-four credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer. Additionally, a minimum of thirty-two credit hours must be completed at Montclair State College.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a MINIMUM of twelve credit hours of upper-level coursework in the major at Montclair State College. Some curricula may require more than this minimum.

Leave of Absence

Students in good academic standing may take a leave of absence of one or two semesters by arrangement through the Counseling Office.

Students who take a leave are guaranteed re-admission provided they file with the Office of Admissions an application for readmission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed re-instatement and must

follow normal re-admission procedures if they wish to attempt to return to the College.

Readmission

When you leave Montclair State College temporarily, whether by choice or by request, your name and records are removed from active enrollment. In order to reactivate your file when you return, all full-time students must file an application for readmission with the Admissions Office. There is no charge for this application, but the information requested on the forms is essential to assure your receiving all your previously earned credit and to coordinate your files for a new registration period. The advantages of mail registration are only possible for early applicants.

Deadlines

August 1 — Fall Semester

December 1 — Spring Semester

Academic Advisement

New students are assigned to a faculty member from their major departments for general counseling and academic advisement. There is also an academic counselor available to students who enter the College undecided on a major. A full-time academic counselor is assigned to each of the Schools to counsel students regarding curriculum planning, registration, choice of major, record evaluations, low scholarship, etc.

In addition, a two-semester hour course, Freshmen Seminar (taken Pass/Fail), provides students with information concerning educational opportunities and services of the College. The course is intended primarily for freshmen not decided on a major although others may enroll as space permits.

Final Examinations

At the end of each semester each professor may give a final examination or evaluation for each course he teaches.

Such examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the courses' subject matter, varies with individual professors and classes.

Final examinations (or evaluations) are to be weighed in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. Under college policy a student guilty of plagiarism may be subject to dismissal.

Academic Furlough

Students who have attended the College for at least one full calendar year and whose cumulative average is not at the retention level, may be placed on academic furlough from the College. Such students may apply for re-admission after one year. Such application, however, does not insure automatic re-instatement.

College Services and Facilities

housing

Students may apply for housing after being accepted for admission. Residence hall assignments are made for one year only, to one of five residence halls. The Inter-Residence Hall Federation, Coordinators of Housing and Hall Directors determine policies for the halls. Undergraduate Resident Assistants help freshmen adjust to residence hall life.

Students who cannot be accommodated in the halls are assisted in finding housing in private homes and apartments near the campus. An Off-Campus Housing Office provides assistance in all matters related to off-campus housing.

All housing assignments, whether on- or off-campus, are made without regard to race, creed, color, national origin or ancestry.

Health Services

Two doctors and five nurses comprise the staff of the College Health Center, located in the west wing of Russ Hall. The Center provides preparticipation examinations, tuberculosis screening, first aid, diagnoses and referrals to personal physicians or specialists.

Student medical insurance, providing accident and sickness benefits, is available at an annual premium of \$22.50, payable at registration. Participants in collegiate athletics are required to have this coverage. Additional information is available from the Student Personnel Department, College Hall 217 or the Health Center.

New Student Orientation

During orientation, new students can become acquainted with officials of the College, officers of the Student Government Association and upper classmen in charge of the orientation program. Through orientation events during the summer and fall semesters, students are introduced to the history, traditions, ideals and objectives of the College.

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist comprise the personnel of the Counseling Department. Available every school day, the staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality. Counselors have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems such as test anxiety, sexual definition and overeating.

Student Services

The Student Personnel Department provides guidance in financial aids, part-time employment, housing, veterans' affairs, health, emotional adjustment, leadership training and social adjustment, as well as personal counseling of a general nature.

Placement Service

The Placement Office assists students in career planning and placement, compiles credentials for registrants, notifies candidates of job opportunities, informs prospective employers of qualified candidates, distributes supporting credentials and arranges personal interviews for applicants and employers. These services are offered to undergraduates and alumni without charge.

Career Planning and Placement

The primary purpose of the Placement Office is the direction of non-teaching graduates into positions in manufacturing, insurance, banking, civil service, law enforcement agencies, social services, the Federal government, etc. This is accomplished through an active bulletin board and a schedule of recruiter visits. A secondary function is the listing of employers for students seeking part-time jobs off campus; students conduct their own job searches based on the information compiled by the Office.

Library

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. Academic support is provided for all undergraduate, graduate, and special programs offered by the College. Librarians are on hand to guide students in the use of the library's substantial and constantly expanding collection of books, periodicals and various forms of non-print media such as microforms, cassettes, video cassettes, and film loops.

The library is a depository for United States and New Jersey Government publications, and holds special collections that include the China Institute Library and four important poetry collections. Orientation and reserve materials are provided on request for professors and interlibrary loan is available to all members of the college. During semesters, the library is open seven days a week.

Library facilities include study tables, individual carrels, large and small conference rooms, and lounge areas. Smoking lounges and a student typing room are located on the lower level. Copying facilities for both hard copy and microforms, are available at nominal cost.

Adult Education Resource and Service Center

Organized under the Adult Basic Education Act of 1966, the Center offers in-service training of teachers in programs of adult education, with emphasis on reading improvement for the under-educated adult. It maintains a library for curricula development and instruction, develops low-literacy materials and conducts seminars to aid municipal agencies in communicating and with their clientele.

New Jersey Center of Economic Education

Operated at Montclair State by the New Jersey Council on Economic Education, the Center initiates programs and improves existing ones, through workshop-seminars, conferences, research and publications in the area of economic education.

Media Services Center

The Media Services Center has been an instructional support service of the total College community for over thirty years. Its primary function has been to provide instructional materials of non-book nature for use by faculty and students. The program and student activities frequently require the use of communication media and ancillary materials. The Media Services Center has undertaken to provide service to these academic endeavors. It offers support service rather than direct instruction, through purchasing, distributing and circulating audiovisual equipment. It maintains, services and repairs all audio-visual equipment on campus.

Computer Center

The Center performs all administrative data processing for the College. It also provides services to instructional departments which use the computer.

ab equipment as part of their course work or research, and conducts seminars in computer usage for the faculty and staff. Plans are underway to open the seminars to the public in order to extend a sophisticated competency beyond the academic community.

Parking Facilities

The College maintain several parking lots for use by students, as designated on all maps of the campus. The College assumes no responsibility for cars or their contents while parked.

Student Activities

Student Government Association

The Student Government Association, composed of all undergraduate students, provides a representative governmental structure. Through its subdivisions it coordinates educational, social, cultural and athletic activities and relationships among administration, faculty and students.

The legislative branch is composed of representatives from each class and major curriculum. The executive branch consists of the President, Vice-President, Treasurer, Secretary, past President and representatives from each of the major activity areas. The Dean of Students and the Financial Aids Officer are non-voting advisory members.

Black Student Cooperative Union

Black Student Cooperative Union is comprised mainly of black students who feel that black organization can be a factor in achieving success in society. On campus or in the community, the members of B.S.C.U. are dedicated to helping the black man develop a pride in himself, learn to function in his community, and strive for success in society.

Campus-Community Program

The CCP is dedicated to new adventures in liberal education. Without sacrificing established standards, it allows experimentation in subject areas, class organization and approaches to academic areas. The Program was largely student-initiated, and it remains largely student-administered. The faculty are recruited from the various academic departments and much of the work is interdisciplinary. The curriculum is under continuous development. Involvement with the community is a major goal. Small-group seminars are organized by a joint student-faculty coordinating council.

Campus Radio Station

The Voice of Montclair State began operating on campus in the Spring of 1967. It broadcasts educational programs involving all of Montclair's instructional departments. Any undergraduate student with an interest in broadcasting may become a member of WVMS or WMSC (FM).

Athletics

The College is a member of the Eastern College Football Conference, Collegiate Track Conference, Metropolitan Intercollegiate Soccer League, National Collegiate Athletic Association, New Jersey Athletic Conference and Eastern

College Athletic Conference. It fields varsity teams in baseball, cross-country, football, golf, lacrosse, soccer and wrestling for men; field hockey and softball for women; and basketball, fencing, gymnastics, swimming, tennis and track for both. Intramural sports include most of the varsity selections, as well as inter-sorority badminton, volleyball and touch football.

College Life Union Board (CLUB)

The College Life Union Board is the division of the Student Government Association that is responsible for all campus social, cultural and recreational programs.

Students are invited to join CLUB committees for Concert, Lecture, Cinema, Music and Art, Recreation and Human Relations Laboratory.

Some annual CLUB events are: major concerts, Human Relations Laboratory, the Night Coffee House, Homecoming, Christmas Ball, Lecture Series, transportation to off-campus athletic events and Carnival.

Council For International and National Affairs

CINA studies and discusses national and international events and issues of vital concern to American life and culture. Interest is stimulated by lectures, films and student panels and discussions. The club is open to all students.

Drama and Theater Productions

The Memorial Auditorium serves as a laboratory for College theatrical activities. At least three major productions are presented each year by Players, the undergraduate college-wide dramatic organization. Players also offers workshop activities throughout the year and assistance to other producing groups on campus.

Fraternities and Sororities

The goal of these organizations is to develop fellowship, citizenship and character among members while building school spirit and morale. Students may be rushed by a fraternity or sorority after their first semester at Montclair State College.

Departmental honorary and professional organizations are numerous in such fields as Music, Physical Education, Communication Sciences and Disorders, Arts, Education, Mathematics, Geography, Business, English and Science.

In addition, many special interest clubs operate to meet the diversified needs and interest of Montclair students. They schedule educational, social and recreational activities.

Music Programs and Organizations

Students can broaden their backgrounds through the various musical organizations and programs coordinated by the Music Organization Commission. They include Symphonic Band, Concert Band, College Orchestra, Laborator Orchestra, Concert Choir, College Choir, Opera Workshop and the Music Workshop. MOC also sponsors such distinguished visiting performers and groups as the Zurich Chamber Orchestra, the New York Woodwind Quartet, and duo-pianist Vronsky and Babin.

Student Publications

Through five different publications, students serve the College and gain valuable experience in journalistic, creative and managerial fields.

The **Arrowhead** is the handbook for new students. It supplies general campus information, policies and descriptions of organizations and serves as a guide throughout the first year.

The **Montclarion** is the student newspaper. Its chief aim is to keep the College informed of important events. Undergraduates are eligible for staff positions. Previous experience is not necessary.

The **Quarterly** is the student literary magazine. It presents a wide range of student literary talent in the form of verse, short stories, essays and illustrations. Only original student contributions are accepted. The staff is open to all members of the student body.

La Campana is the College yearbook. It covers every phase of College life from freshman hazing to graduation. Open to all undergraduates.

Galumph is the campus humor magazine. It provides an outlet for creativity in the field of humor and presents light and thought-provoking commentary on life.

Who's Who Among Students in American Colleges and Universities

Each year a number of outstanding seniors are elected to this national listing. The criteria are scholarship, participation in co-curricular activities and character qualifications.

Fine Arts Exhibits

Fine Arts is recognized as a valuable part of the cultural life of the College. The work of recognized artists, and of elementary and secondary students, is frequently displayed in the Foyer of Sprague Library. An excellent collection of modern and contemporary prints, together with paintings by Fine Arts students, is on display in public areas and administrative offices.

Air Force ROTC

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Credits for The General Military, Professional Officer courses and Aerospace Studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions and benefits and procedures of the program, contact the office of the Vice President for Academic Affairs.

INTRA-COLLEGIATE ACADEMIC PROGRAMS

Benedict O. Harris, Director

The Office of Intra-Collegiate Academic Programs seek to meet some of the changing needs of students and of education in the state through ten programs.

Campus Community Programs

Nancy Dougherty, Director

This program offers alternatives to the regular college curriculum through courses on contemporary concerns, approached in an interdisciplinary manner and leading to community involvement. Requirements are jointly determined by the professor and students.

College Discovery

Joseph Garreffa, Director

The College Discovery Program, maintained at Fort Dix, New Jersey, encourages its servicemen participants, to explore their personal and career goals and decide whether to apply for college admission after leaving the service.

Educational Opportunity Fund

Reuben Johnson, Director

Admission into New Jersey's colleges is highly competitive as a result of the state's extreme shortage of college seats, and students with good potential but inadequate credentials are at a disadvantage. The New Jersey Department of Higher Education attempts to resolve this problem with the Education Opportunity Fund Act of 1968, which recognizes that academic records do not always reflect ability. A student accepted into the EOF Program is provided with supportive features that are essential for success on the college level such as evaluation tutoring and counseling. Beyond these services, the student must fulfill all the requirements and demands placed on any other Montclair State student.

Film Information Exchange

Emma Fantone, Director

The Film Information Exchange offers to faculty and students information on free, new, experimental and avant-garde films. It also assists in locating and selecting films, preparing filmographies in subject areas, and organizing mini film festivals. Workshops on film production, creative film utilization, and teacher and pupil produced media are also offered.

Center for International Education

Joseph Kloza, Director

The Center administers programs of study outside the United States such as the Winter Session in Europe and administers low-cost travel and tour programs. In addition, it provides information and counseling to Montclair students wishing to study, travel or work abroad through its library of reference materials on hundreds of available programs.

The Law Enforcement Education Program

Benedict O. Harris, Director

The Law Enforcement Education Program provides academic course work for law enforcement officers as part of the Department of Justice Omnibus Crime Control and Safe Streets Act of 1968. Through this program, Montclair State is an active member of the N.J. Council of Educational Institutions for Law Enforcement.

Second Careers Program

Layne Andres, Director

In response to the growing realization that learning is a life-long project, the Second Careers Program expands the college's service to the community by encouraging the re-entry of adults over 25 years of age into higher education. It offers its adult students a credit-bearing re-entry seminar, along with academic, personal and career counseling. Referral services to appropriate resources for psychological, remedial, medical or financial assistance are also available.

Weekend College

John Sanz, Director

The Weekend College offers regular college offerings for students who wish to attend classes on Friday evenings, Saturday and Sunday. It also provides an education designed to meet the needs of the Spanish-speaking bilingual individual and a valuable cross-cultural experience for English-speaking students seeking to work among the Spanish-speaking.

Upward Bound

John Redd, Director

Upward Bound is a pre-college preparatory program designed to generate the skills and motivation necessary for success in education beyond high school among young people from low-income backgrounds and inadequate secondary school preparation.

Montclair State College cooperates with Saint Peter's College in the sponsorship of the program. The summer component is held on the Montclair campus and the academic year at Saint Peter's. Sixty students are recruited from Jersey City and ten from Montclair.

Women's Center

Constance Waller, Director

The Women's Center focuses on providing services for adult students, faculty, staff and community women in addition to the regular student body. It is also concerned with raising the level of awareness and the interests of women and in helping to create conditions which allow women to share fully in the opportunities and resources of the college.

Educational Foundation for Human Sexuality

Coordinator: Dr. Charity Runden

The Educational Foundation for Human Sexuality was established in 1967 to help schools and communities as they began planning kindergarten-through-twelve programs of sex education. Despite broadened interests and services, the Foundation still spends much of its time with schools and in courses for teachers. It operates a Speakers Bureau; coordinates on-campus and off-campus graduate and undergraduate courses; offers courses in adult education; offers school and community consultation services; co-sponsors the distribution of audio-visual materials through the College's Media Services Center; maintains a library of books and periodicals and a research library of reprints and journal articles; edits and writes books and articles on research and education in the field, sponsors an annual Conference and works with dormitories, campus organizations and individual students on interests concerned with sexuality.

Requirements for the Bachelor of Arts Degree

	semester hours
General Education Requirements	36
Communications Requirement	0-9
Physical Education	1
Major Field	48-54
Electives	48-59
	<hr/>
REQUIRED TOTAL	128

1. General Education Requirement

The General Education Requirement for every student consists of 36 semester hours to be distributed as follows:

- A. Common Core: Each student will elect 18 semester hours from the offerings of three Schools other than his own. At least 6 semester hours must be taken in sequential courses within and designated by a single department.
- B. School-Planned Core: Each student will fulfill an 18 semester hour requirement planned by the School in which he is a major. The School-Planned Core will be found under the School heading in the following pages. It is recommended that uncommitted students follow the General Education Requirement of the School to which they are most likely to commit themselves as a major.
- C. Distribution Requirements: Within the 36 semester hours of General Education, each student will select courses to satisfy at least two of the following distribution categories:
 - 1. Methods of Inquiry
 - 2. Interdisciplinary Studies
 - 3. Public Issues and/or Social Action
 - 4. Modes of Expression

Notes: a. It is recommended that a student complete the General Education Requirement during the first two years.

- b. Courses satisfying various elements of the General Education Requirements will be indicated in the registration materials of the College.
- c. No course used in Educational Sequence to serve the requirement for certification may be credited toward the General Education Requirement.
- d. Courses in the student's major do not fulfill the General Education Requirement. In cases of a double major, this restriction applies only to one major.
- e. This General Education Requirement is a substantial change from previous requirements. It will be subject to review, interpretation, revision. Students will be advised of any modifications at time of registration.

2. Communications Requirement. All students must demonstrate proficiency in three areas of communication: speaking, reading and writing. Any course taken to meet this requirement may not be used to satisfy the General Education Requirement.

3. Physical Education Requirement. Courses which satisfy this requirement are:

0878-0250	Beginning Swimming	0879-0262	Volleyball
0878-0251	Form and Figure	0879-0276	Aquatics, Water Safety
0878-0253	Gymnastics and Conditioning	0879-0278	Yoga
0878-0275	Intermediate Swimming	0879-0265	Figure Skating
0878-0267	Advanced Swimming	0879-0266	Skiing
0877-0257	Weight Training and Fitness	0879-0268	Bicycling
0877-0264	Gymnastics	0879-0269	Badminton
0879-0203	Golf	0879-0274	Bowling
0879-0252	Archery	0879-0275	Scuba Diving
0879-0258	Tennis Beginners	0879-1260	Karate, Beginning
0879-0260	Riding, Beginning	0879-1275	Riding, Intermediate
0879-0261	Fencing	0879-2260	Karate, Advanced
			Riding, Advanced

A fee is charged for courses such as skiing, scuba diving, ice skating, etc., so check with the department at registration.

If physical limitations are a consideration, notice from the student's physician should be forwarded to the department chairman.

i. Major Field. Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 32 to 34 semester hours.

. Montclair State College believes that students should appreciate the problems and life of minority groups, and their contribution to the nation's heritage and future. To insure that each student has exposure to this vital part of American culture, every student must take at least one course from the list below:

0506-0315	Organizational Behavior
0506-0316	Human Resource Management
0506-0332	Minorities in Business
0506-0363	Business and Society
0506-0441	Consumer Motivation
0821-0445	Puerto Rican Children in Mainland Schools
0821-0446	Today's Woman
0821-0463	Women and Education in Western Society
0829-0412	Field Work in Urban Education
0829-0423	Teaching in Urban Schools
0835-0213	Group Interaction in a Recreational Setting
0835-0320	Recreational Needs of Urban Society
0835-0416	International Aspects of Physical Education
1008-0345	Dance Techniques—Ethnic
1015-0150	Influence of Afro-American Culture
1015-0209	Introduction to Jazz
1015-0309	The Art of Jazz
1015-0339	Music in Modern Society
1015-0351	Music in Urban Society
1105-0360	Spanish Community Program
1116-0101, 0102	Swahili I, II
1301-0122	Clothing and Culture
1301-0153	Food and Man
1301-0231	Family Economics
1301-0342	Family Sociology

- 1301-0370 Independent and Family Problem Solving
1301-0445 The Inner City Family
1501-0139 Literature of Social Protest in America since 1920
1501-0294 Women Poets
1503-0173 Eastern World Literature
1503-0238 Afro-American Writers
1503-0266 African Myth and Literature
1503-0372 Major Women Prose Writers
2001-0383 Psychology of Aggression
2202-0200 Cultural Anthropology
2202-0201 Physical Anthropology
2202-0301 The Peoples of Africa
2202-0303 The Peoples of South America and the Caribbean
2202-0305 The American Indian: Perspectives on Change
2202-0309 The Peoples of Middle America
2202-0404 Urban Anthropology
2202-0406 Peasant Culture
2204-0204 Labor Economics
2204-0303 Economic Growth and Development
2204-0415 The Economics of Social Problems
2205-0108 African Civilization
2205-0114 Latin American Civilization
2205-0212 Social History of the United States
2205-0317 History of Black Americans
2205-0220 Introduction to American Urban History
2205-0410 Independent Study in American History
2205-0409 Independent Study in Non-Western History
2206-0308 Geography of Latin America
2206-0410 Urban Geography
2206-0412 Geography of Africa
2206-0422 Population and Settlement of Africa
2206-0460 Independent Study Program
2207-0308 Ethnic Politics in America
2207-0309 Urban Politics
2207-0402 Government and Politics of Africa
2207-0405 Governments and Politics of Latin America
2207-0411 Black Politics in America
2208-0205 Race and Ethnic Relations
2208-0206 Individual and Society
2208-0213 Social Stratification
2208-0300 Internship in Sociology
2208-0307 The City and the Arts
2208-0310 Directed Independent Study
2208-0311 Urban Sociology
2208-0331 The Sociology of Power
2208-0410 Social Action Practicum
2208-0411 The Black Family
4903-0297 Literature and Sociology
4903-0376 Latin-America Short Story in English
4903-0378 Modern Spanish-American Novel in English
4903-0381 African Antiquity
4903-0399 Development of Black Thought

For additional information contact the Office of the Registrar.

School of Educational and Community Services

Ercell I. Watson, Ed.D., Dean

Theresa A. Bowman, M.A., Administrative Assistant

The School of Educational and Community Services provides professional educational services to the communities of the nation and particularly to those of northern New Jersey. These services are directed to: individuals seeking admission to the teaching profession; preparation for specialization in education and growth within the profession; public and non-public schools; community agencies; business and industrial organizations. The School is also concerned with the continuing development of the general field of education and with related problems of society.

The role of the School is three-fold: (1) to offer these services in an accessible and useful manner, (2) to use the training, experience and expertise of the staff to the best advantage in the performance of services, and (3) to coordinate mutual efforts with other agencies of the College and the community. These objectives are accomplished through instruction, consultation, supervised laboratory experiences and research.

The primary purpose at the undergraduate level is to provide students with the basic professional experiences and learning essential to successful teaching. Professional courses are so designed that a student receiving credit for all the required courses in education and psychology, plus a methods course in his major field, meets the requirements for certification in professional education. Students may exceed the minimum educational electives in areas of education which interest them.

The School assists students by:

(1) helping the prospective teacher take an intelligent and active part in his own personal and professional orientation.

(2) arousing awareness of the teaching profession as an opportunity to apply one's interests and powers to the social good.

(3) providing for a gradual induction into the profession through a carefully-arranged sequence of education courses, participation as teacher aides in actual high school classes and student teaching.

(4) offering opportunity for the student to be active in the extracurricular life of the school and in community affairs.

(5) giving a forward look into the profession as a worthy life-time vocation.

In addition to regular programs, the School designs and implements new approaches to the educational needs of urban/minority/disadvantaged student populations. It has reached out to solve human problems through programs in nearby prisons, public schools, store fronts, street-based schools, community action programs, high school and college level examination equivalency programs and career ladder programs. These programs are administered by teams as indicated below.

Montclair Educational Review

Team Leader: Dr. Robert B. Williams

The Montclair Education Review is a communications organ articulating the problems and concerns of educators throughout northern New Jersey. Sponsored by the School of Educational and Community Services, the Review directs its attention to superintendents, principals, teachers and other educators operating within the educational structure. The publication is issued at intervals during the academic year.

Manuscripts will be reviewed, providing they are typed double-spaced, no more than five pages in length and properly documented. They should be sent to: The Editor, Montclair Education Review, Montclair State College, Upper Montclair, New Jersey 7043.

Student Teaching and Educational Placement

Director: Dr. Norman E. Lange

Assistant Director: Mrs. Beverly Q. McHugh

Through the Office of Student Teaching and Educational Placement, assistance is provided to eligible candidates in securing positions in fields related to education including positions as classroom teachers, administrators, counselors and special education consultants. Services include notification to candidates of positions, preparation and distribution of supporting credentials, arrangements for on- and off-campus job interviews and career counseling. Services are provided gratis.

Department of Adult Continuing Education

Chairman: Mr. Raymond Ast, Associate Professor

The Department of Adult Continuing Education provides selective and distinctive program services to students, volunteer and para-professional groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey, the nation and the world. In addition to leadership training for adult educators, the Department's program offers direct services to community education development efforts; adult basic education and high school equivalency programs manpower training development efforts; competency-based staff development for adult educators in New York, New Jersey, Puerto Rico, Virgin Islands and the Canal Zone resource services to practitioners and researchers in community programs for older adults, including model pre-retirement program development and effective use of college and community resources to serve older Americans. The Department also provides services and training programs for industry and institutional employee career mobility.

In addition, the Department is the center for an information network throughout the United States and the world through its National Multimedia Center for Adult Education and its National Adult Education Clearinghouse. These components have been recognized by UNESCO as a member unit of the Worldwide Information and Documentation Centers for Adult Education.

The Department, working closely with the Educational Leadership Department of the School of Educational and Community Services and with other Schools of Montclair State College, as well as with selected colleges and universities of the Northeast Region Consortia, offers a graduate program in adult continuing and community education to the student seeking a master's degree.

Department of Curriculum and Teaching

Chairman: Dr. Nicholas M. Michelli

Director, Teacher Admissions and Field Experience: Dr. Anne C. Castens

Professors: Flagg

Associate Professors: Moyer, Russo, Salt

Assistant Professors: Al-Khatab, Becker, Boyce, Haber, Kunz, Michelli, Pine Uria, Venturini

The Department of Curriculum and Teaching has as its primary mission the professional education of public school teachers. In fulfilling this role, most undergraduate courses offered by the Department are taught in the field in Professional Semest Centers. The Department also offers programs and courses at the undergraduate level for the professional growth of teachers in service.

TEACHER EDUCATION

The teacher education program is an inter-school program involving courses in the student's own School, the School of Educational and Community Services, and other Schools of the College. While admission to the program normally occurs in the sopho-

more year, pre-requisite courses are taken in the freshman or sophomore years. Students are responsible for being familiar with program requirements and for meeting attendant deadlines. Failure to do so may require work beyond the normal four year program to complete requirements.

Descriptions of Program Stages

I. Decision to Apply for Admission to Teacher Education and Completion of Pre-requisite Courses—FRESHMAN/SOPHOMORE YEARS

All prospective teacher education students are encouraged to undertake experiences and/or courses which will allow them to work with young people of the ages they are considering teaching, to get a better perspective of the profession. Faculty of the Department of Curriculum and Teaching and other faculty of the College are available to discuss students' plans and recommend such experiences and/or courses.

During this stage, students planning to apply for admission to teacher education must satisfy the speech proficiency requirement, by passing a test or completing a speech course. Information regarding this requirement can be secured from the Department of Speech and Theater, major advisors, or faculty in the School of Educational and Community Services.

Students must also complete the course 2001-101 General Psychology I: Growth and Development in the Department of Psychology. They should consult with their major department advisors to determine any additional requirements specific to their majors.

Failure to have completed the pre-requisites at the time of application for the teacher preparation program will delay acceptance into the program which could require an additional semester for the completion of the professional sequence prior to graduation.

I. Admission to Teacher Education—SOPHOMORE YEAR

Admission to the College is not considered to be admission to the teacher education program. Students who wish to enter teacher education should make application prior to the close of the sophomore year. If applications are made later, students may have difficulty in completing the professional sequence before graduation. Three semesters are generally required for completion of the remaining stages.

Criteria for admission to teacher education:

1. Three favorable recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Satisfactory completion of a speech test or recommendation by speech department upon completion of speech course.
3. Evidence of passing Psychology 2001-101 General Psychology I: Growth and Development.
4. Cumulative average of at least 2.45 based on a 4.00 scale. In exceptional cases, an individual may be admitted provisionally, with a cumulative average of less than 2.45 with a statement from a faculty member from his major field who is willing to sponsor his admission, and if the Screening Committee approves. A cumulative average of 2.45 with no failing grades in the major or in the courses in the professional sequence is required for eligibility for student teaching.
5. Other requirements as indicated by the student's department.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a Screening Committee of three faculty members, with representation from the School of Educational and Community Services and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the School of Educational and Community Services will be assigned. Further information regarding the process of admission to teacher education can be secured from Dr. Anne C. Castens, Coordinator of Teacher Admissions.

III. Preparation and Registration for Student Teaching—SOPHOMORE/JUNIOR YEARS

During this period, students must complete the course 0829-0410 Field Experience in Education. This experience consists of thirty hours in a school at the level the student plans to teach, including work as a teacher's aide, observation of teaching, some instruction of students and other experiences. Information regarding this requirement is available from the School of Educational and Community Services advisor assigned at the time of admission to teacher education.

In this stage, students must complete requirements for student teaching in their major schools including the methods course. Also, Psychology 2001-0200: Educational Psychology must be completed prior to the Professional Semester.

Soon after being formally accepted into the teacher education program, the student must register with the Office of Student Teaching and Educational Placement located in the College High School building in order to be placed in a Professional Semester Center in the senior year.

Since it takes a good deal of time to place student teachers in Centers within reasonable commuting distance, and since individual circumstances often enter into placement, it is extremely important that the Student Teaching Office be given enough lead time to secure assignments for each student.

It is suggested that eligible students register with the Office of Student Teaching in January of the academic year prior to the academic year in which they plan to participate in the Professional Semester. In any event, applications for a Fall semester will not be accepted after June 1 of the previous academic year. Applications for a given Spring semester will not be accepted after November 15.

Requirements for assignment to a Professional Semester Center and student teaching are as follows:

1. Admission to Teacher Education.
2. Academic standing
 - a. Satisfactory completion of 6 semester hours in English and 6 semester hours in Social Studies of the general education requirements of the College.
 - b. Satisfactory completion of 2001-0200: Educational Psychology.
 - c. Acceptance by a major department and completion of at least 24 semester hours in a major.
 - d. No grade of "Incomplete" or "F" in required courses.
 - e. Satisfactory completion of the methods course in the major area.
 - f. Satisfactory completion of the Junior Field Experience.
3. Evidence that the student is in good health and free from any disease or physical defect which might interfere with success as a teacher.
4. A College record free from personalized social qualities considered professionally undesirable.

IV. The Professional Semester—SENIOR YEAR

The culminating experience in the teacher education program is the Professional Semester, devoted to final preparation and student teaching. For this experience the student is assigned to a Professional Semester Center, a public school which serves as an off-campus center for teacher education. The student teaching experience may take place in the Professional Semester Center school or a nearby school.

While assigned to the Professional Semester Center, the student completes five credits of course work in addition to the eight credits granted for 0829-0411 Supervised Student Teaching. A faculty member of the School of Educational and Community Services is assigned to each Center.

During the first weeks of the Professional Semester, the student begins observing classes and preparing to assume the role of a teacher in the assigned school. At this time, the course 0829-0400 Teacher School and Society is completed. In this course, which is taught at the Professional Semester Center, the student is asked to examine the nature of education in America and the role of the teacher in the process. As the student begins to assume a larger teaching role in the assigned school and becomes

professional member of the team with the cooperating public school teacher, the course 0829-0402 Seminar in Professional Education begins. It provides a regular opportunity to meet with other student teachers and professional educators to discuss successes and difficulties encountered. Skill sessions which focus on specific common problems will be available as well. Cooperating public school teachers, administrators and supervisors from major departments will be asked to participate in these courses.

Throughout the semester, the student will be completing the course 0829-0401 Senior Field Experience, designed to give a better perception of the place of the assigned school in the community, the place of the assigned school within the total educational continuum, and the nature of the lives of students after school.

Additional information regarding the Professional Semester and other aspects of the teacher education program is available from assigned School of Educational and Community Services advisors or members of the Department of Curriculum and Teaching.

Note: In accordance with the provisions of New Jersey Statute (N.J.S.A.18A: 26-A) students must take an examination in physiology and hygiene. The student may have had undergraduate study in areas such as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration. If not, he can take such course in lieu of the examination. (The requirement does not apply in art, business education, foreign language, health education, industrial arts, library studies, music or physical education.) The examination can be taken at the office of any County Superintendent of Schools.

Among the graduate and special programs offered by the department are:

1. Bilingual M.A.T. Program

A Master of Arts program designed to train bilingual teachers, with instruction in both Spanish and English.

2. Certification Program (Post Baccalaureate)

Academic Advisor: Mrs. Marcella West

A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.

3. Master of Arts in Teaching

Director: Dr. Catherine Becker

Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on alternative education, are available.

4. Teacher Corps/Corrections Program

Director: Mr. Thomas E. Gregory

Designed to train teachers to work in urban schools as well as in juvenile correctional institutions.

5. Urban Teacher Intern Program (U.T.I.P.)

Director: Mr. Samuel E. Turner

Offers certification and graduate education for those primarily interested in urban teaching. Students in this program are employed as interns by urban schools.

The department also maintains the Curriculum Resource Center under the direction of Mrs. Gertrude T. Greenberg. This library facility houses a collection of instructional materials and courses of study in all subject areas.

Department of Educational Foundations

Chairman: Dr. Ronald F. Haas

Professors: Cordasco, Haas

Associate Professors: Bernstein, Bredemeier

Assistant Professors: Danzig, Sharp

The Department of Educational Foundations has the dual responsibility of servicing and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new innovative programs. In keeping with these professional burdens, the

department offers undergraduate and graduate foundations courses for the preparation of public school educators and at the same time, tries to satisfy specialized demands beyond the limits of the public schools, through alternative graduate programs and undergraduate electives.

The department offers the M.A.T. in Alternative Community Education Coordinated by Assistant Professor Danzig.

Department of Educational Leadership

Chairman: Dr. Anne C. Castens

Professors: Bellagamba, Castens, Heiss, Lang, Merlo, Watson

Associate Professors: Cuff, Oxman, Rust, Schantz, Weischadle

Assistant Professors: Brunner, Freeman, Johnston, Rudnick

Instructor: Stone

The Department of Educational Leadership comprises four educational specialties teams: Administration and Supervision, Educational Research and Evaluation, Reading and Technology in Education. The programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. Course work and field experience in schools and/or other community agencies make up each individual program. The graduate programs in this department prepare students for positions as:

1. major administrative or supervisory personnel at all levels of educational systems
2. educational consultants
3. educational researchers
4. educational managers and planners in the media fields
5. managers of emerging educational programs in business and government

Administration and Supervision Team

Team Leader: Dr. Anne C. Castens

The Team of Administration and Supervision working with other departments of the College and the School of Educational and Community Services prepares educational leaders. Its programs are limited to graduate study leading to the M.A. in Administration and/or Supervision and to post M.A. studies. Although programs are directed toward certification as Supervisor, Principal, School Administrator or Business Administrator a comprehensive study of the field of educational leadership is encouraged.

Courses in certification programs are open to those holding the M.A. degree in a subject area and desiring certification as supervisors either in that subject area or in other supervisory or administrative positions.

Educational Research and Evaluation Team

Team Leader: Dr. Gerhard Lang

This program:

1. trains educational research and evaluation specialists needed by pre-school centers, school systems, colleges and universities, research and development centers, regional educational laboratories, industry, private research agencies and the city, state and federal research bureaus.
2. broadens the professional education of students enrolled in various degree programs by offering courses designed to make them literate initiators and users of educational research and evaluation studies.

Reading Team

Team Leader: Miss Maria Schantz

The Reading Program is concerned with the preparation of competent leaders for a variety of functions related to the needs of children, youth and adults. Wide d

mands exist for teachers, supervisors, consultants, and administrators capable of developing, implementing, maintaining and improving programs in developmental, corrective and remedial reading and specific learning disabilities. The Program provides students with backgrounds necessary for these specializations.

A Master of Arts degree with a specialization in reading improvement, a certification program, and an undergraduate minor program in reading are available. A student enrolled in the reading minor gains field experience by working first as a Reading Aide in a public elementary school, next as a college tutor in the Reading and Study Skills Center, and finally as "cadet-diagnostician" in the Diagnostic Clinic. The minor consists of 24 semester hours.

College students may take a personal reading improvement program for optional credit, offered as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for school-age children and adults.

Minor in Reading

The course sequence in Reading will be coordinated within the course sequence in the candidate's major program. A minimum of 24 credits will be required for the completion of the minor.

The minor program consists of the courses listed below. Education 0400 is a prerequisite to the remaining reading courses:

	semester hours
J808-0400 Foundations of Reading Instruction*	3
J808-0402 Survey of Reading Methods in Secondary School Subjects	3
J808-0403 Reading and the Improvement of Study Skills	3
J808-0404 Diagnosis and Treatment of Secondary School Reading Problems	3
2001-0320 Psychology and Education of the Handicapped	3
Nine points must be selected with the advisor's approval from the following:	
I506-0465 Introduction to Phonetics	3
J220-0209 Voice and Articulation Disorders	3
2001-0335 Social Psychology	3
J824-0491 Measurement and Evaluation in Teaching and Learning	3
J808-0301 Tutoring and Small Group Instruction	3
508-0403 Methods and Materials of Teaching English As a Second Language	3
J841-0400 Selection and Utilization of Audio-Visual Material	3
J841-0440 Television in Education Workshop: Programming and Production	3
601-0403 Reading Materials for Children and Youth	4
301-0319 Language and Literature for Young Children	3
007-0360 Creative Dramatics	3
<hr/>	
REQUIRED TOTAL 24	

Prerequisite for all courses

For any information regarding the minor, contact the Reading and Study Skills Center, College Hall, Room 105, or call extension 4247.

Technology in Education Team

Team Leader: Dr. Grosvenor Rust

This program offers courses designed to prepare professional instructional personnel in the audio-visual, media and communications field. Moving beyond the classical notion of an audio-visual program, the department has as a primary goal the task of exploring the expanding realm of technology and then adapting technology to education.

The department also offers undergraduates and graduate students the background in media and technology needed to produce high quality instruction in colleges, public and private schools, industry, military service and other agencies. Contemplated are programs leading to nationally-recommended certification standards for media personnel.

COURSE DESCRIPTIONS

0841-0400 Selection and Utilization of Educational Media

Develops competency with educational media in classroom presentations. Production of simple teacher made materials; selection and utilization of materials and equipment; and proficiency in basic media technology and evaluation. 3 s.h.

0841-0420 Teaching Materials Workshop

Initial problems in creation of media resources. Simple design experiences in development of materials production. Individually oriented to projects and subject areas of each student. Strong emphasis on budget conscious improvisation for classroom teacher. 3 s.h.

0841-0445 Audio Production in Education

Skill in producing audio materials for learning laboratories, film sound, and a variety of synchronized image-sound presentation techniques. Proficiency in the design of audio materials is coupled to competency with duplicating, pulsing, recording and synchronizing devices. 3 s.h.

Library Science Minor

Students who complete the 19 semester hour program and the work experience satisfactorily will receive the teacher-librarian certificate required for service in the elementary and/or secondary schools.

I. Required Courses:	semester hours
0841-0408 Selection and Utilization of Audio-Visual Materials	3
1601-0200 Introduction to School Library Service	2
1601-0301, 0302 Reference and Bibliography I, II	2 ea
1601-3003 Fundamentals of Cataloging and Classification	3
1601-0403 Reading Materials for Children and Youth: Selection and Evaluation	4
1601-0404 Organization and Administration of School Libraries	3
II. Work Experience: 100 hours in library work (36 before student teaching); 36 hours in the College library or approved public library; 64 hours in secondary and elementary school libraries. It is recommended that the requirement be divided between two types of libraries.	

COURSE DESCRIPTIONS

1601-0200 Introduction to School Library Service

The functions and services of the school library in relation to other types. The development of library service, books and printing; censorship problems and the ethics of the profession. The materials center encompassing non-book materials. 2 s.h.

1601-0301, 0302 Reference and Bibliography I, II

Basic reference materials; those most useful in the school library. Encyclopedias, dictionaries, yearbooks, atlases, indexes, specialized reference books, bibliographies major subject fields. The catalog as a basic reference tool. 2 s.h. e

Prerequisite: 1601-0301 for 0302

1601-0303 Fundamentals of Cataloging and Classification

Principles of cataloging and classification; books, pamphlets and non-book material

the Dewey Decimal System. Application of principles through laboratory experience.
Prerequisite: 1601-0200 or permission of the instructor 3 s.h.

1601-0403 Reading Materials for Children and Youth: Selection and Evaluation

Study and evaluation of materials provided by the modern school library. Extensive critical reading of books for children and youth. Principles of book selection; the use of selection tools; relating the library collection to the total school program. 4 s.h.

1601-0404 Organization and Administration of School Libraries

Practical experience in setting up effective library routines: budgeting, locating sources for materials, purchasing, book processing, reports and statistics, inventory, planning and adapting rooms and equipment, evaluating collections and services. 3 s.h.

Department of Student Personnel Services

Chairman: Dr. George G. King

Professors: Gelfond, Gorman, Gregg, Kenyon, King, Williams

Associate Professors: Gaeng, Hamel, Talley

Assistant Professors: Grey, Millard, Mills, Tetens

Instructor: Unger

The Department of Student Personnel Services offers a Master of Arts degree with opportunities to concentrate in one of three separate fields:

1. School Guidance Counselor

Team Leader: Dr. George G. King

The traditional offerings of the department have been directed toward the preparation of school guidance counselors. Because certification in this area requires one year of teaching experience, this part of the program is usually considered in-service (while teaching). More and more students are enrolling directly from undergraduate schools with plans to enter the counseling field in higher education or non-school agencies where certification is not a requirement. A 400 level course, "Guidance for the Classroom Teacher" has been offered to give undergraduates a taste of the graduate offerings in the department.

2. Human Organizational Processes (HOP)

Team Leader: Dr. Alfred Gorman

With three undergraduate (400 level) offerings, HOP is widely known to Montclair students. "Personal Values," "Interaction Analysis," and "Individual and Group Dynamics" provide the student with ample opportunity to explore, early in undergraduate years, awareness and understanding of self especially in relation to others. The content prompts many students to evaluate them as "the most personally helpful courses I've ever taken." The HOP specialization prepares students for a variety of career fields in counseling, personnel work, and group leadership (with additional professional training, etc.).

3. School Social Worker

Team Leader: Dr. Robert Williams

Formerly known as the "visiting teacher," the school social worker is a professionally-prepared helper whose basic responsibilities are helping client-students in the resolution of problems between the school and the outside environment including the home. The school social worker is a member of the child study team in most school districts and develops the out-of-school, background data on students who become the concern of the team. Certification as a school social worker requires either teaching or social work experience in addition to specific courses. "The Role of the School Social Worker" is a course that undergraduates might want to consider for a closer look at this field.

Another component of this department is the Student Personnel Services Resource Center under the direction of Dr. Lawrence Kenyon. It is a library facility which has printed materials on the three specializations described above.

COURSE DESCRIPTIONS

0808-0400 Foundations of Reading Instruction

Sequential development of reading skills; methods and materials in elementary reading programs; increasing the power of teacher and learner. How reading begins and is reinforced. Tutoring in nearby elementary schools is required. 3 s.h.

0808-0402 Survey of Reading Methods in Secondary Subjects

The role of good reading in academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum. 3 s.h.

0808-0403 Reading and the Improvement of Study Skills

Recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration; taking and organizing reading notes and the reading of homework assignments. Students tutor collegians in these areas. 3 s.h.

0808-0404 Diagnosis and Treatment of Secondary School Reading Problems

Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology. An on-going student diagnosis of a school-age child is required. 3 s.h.

0808-0465 College Reading and Study Improvement Laboratory

Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content. Students may volunteer or be recommended by a faculty member. Optional 1 s.h.

0821-0420 Philosophic Foundations in Education

Teaching and learning in the context of philosophic assumptions and beliefs from Western civilization; the ideas of Western philosophers; implications for life, the American way of living and American education. 3 s.h.

0821-0440 Sociological Foundations of Education

Teaching and learning in the context of other social factors; social and cultural influences on teachers and learners and their transactions; the relationship of culture, role and personality; influences of the group upon the individual; the school as a social system; social change in the public schools. 3 s.h.

0821-0441 Urban Politics and Education

The politics of confrontation; the school system as a political institution. Force fields and their influence upon the teacher, school and community; political orientations and experiences of various ethnic groups; the influence of political pressures on urban schools from city or higher levels. 3 s.h.

0821-0445 Puerto Rican Children in Mainland Schools

Migration; the Puerto Rican family; life-styles, child rearing and socialization; social behavior of children; cultural identity, cultural pluralism; bilingual education; learning needs, evolving programs. Visits to schools. 3 s.h.

0821-0446 Today's Women

The historic and emerging role of women in all facets of American life. 3 s.h.

0821-0460 Comparative Education

The meaning of comparative education; differences between educational systems in developed and developing societies; developed areas such as Western and Central Europe; developing areas such as Latin America and tropical Africa. 3 s.h.

0821-0463 Women and Education in Modern Western Society (1770 to the present)

The types of education available to women. Women in the American colonies and France on the eve of revolution; the impact of revolutions on women, especially in education. Feminist and liberation movements; women in Nazi Germany and the Soviet Union. Georges Sand, Elizabeth Cady Stanton, Charlotte Perkins Gilman, Beatrice Webb and Simone de Beauvoir; American black women; women in Latin America; training for professions other than teaching. 3 s.h.

0824-0491 Measurement and Evaluation in Teaching and Learning

Goal setting, evaluation and improving instruction; identifying and translating goals into behavioral objectives; constructing tests; standardized tests and other devices for measuring and evaluating achievement, intelligence, aptitudes and personal social relationships; basic statistical measures; organizing and interpreting test data; marking and reporting pupil progress. 3 s.h.

0826-0451 Guidance for the Classroom Teacher

The teacher in guidance; guidance in the modern school; a good guidance program; tools of the guidance counselor. Not for graduate credit in Student Personnel Services.

3 s.h.

0829-0400 Teacher, School and Society

An introduction to the field of education. The school as a social and legal system, the nature and function of the teacher. The student: his expectations and his impact on the system. Part of the Professional Semester. 3 s.h.

0829-0401 Senior Field Experience

Part of the Professional Semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. 1 s.h.

0829-0402 Seminar in Professional Education

Part of the Professional Semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. 1 s.h.

0829-0410 Field Experience in Education (pre-student teaching)

Thirty hours in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'mini-lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Pass/Fail.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions Office prior to registering for course.

30 hrs.-1 s.h.; 60 hrs.-2 s.h.; 90 hours-3 s.h.

0829-0411 Supervised Student Teaching

Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of Professional Semester. 8 s.h.

0829-0412 Field Work in Urban Education (pre-student teaching)

Similar to 0829-0410 with emphasis on tutoring and individual conferences in urban public school. Student keeps a log of activities. Pass/Fail.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions prior to registering for course.

30 hrs.-1 s.h.; 60 hrs.-2 s.h.; 90 hours-3 s.h.

0829-0413 Field Work in Community Agencies

Thirty hours of guided experiences in public and private community agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/Fail.

30 hrs.—1 s.h.; 60 hrs.—2 s.h.; 90 hrs.—3 s.h.

0829-0420 Instructional Innovations

New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation. 3 s.h.

0829-0421 Seminar: Problems of a Classroom Teacher

Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences. 3 s.h.

0829-0423 Teaching in Urban Schools

The socio-economic setting of the inner-city schools; the students, administrators, teachers and special personnel (guidance, medical staff, remedial work specialists). Mores and family patterns; recent theories, practices and programs for change; innovations in funding; reorganization of schools and systems; reorienting experienced urban teachers to more effective teaching methods. Visits to schools and agencies. 3 s.h.

0829-0425 Curriculum and Instruction for Affective Education

This course deals with the place of and approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. The student will acquire (a) a familiarity with the theory and practice of curricular design and instruction for affective education, (b) a facility in the application and evaluation thereof and (c) a capacity for the development of original models. Micro-teaching, simulation, workshops and representative affective classroom procedures will be utilized extensively. 3 s.h.

0829-0430 The Elementary School Curriculum

Characteristics of young learners; the source, nature and function of curriculum goals types of elementary school administrative organization; the relationship of curricula patterns and classroom procedures; modern subject matter areas. Audio-visual aids testing, and reporting to parents may be included. Field trips and simulation materials

3 s.h.

0829-0431 Junior and Middle High School Curriculum

Current movements in the programs of intermediate schools. Representative practice and the rationale of the junior high school; innovations in middle schools; developing courses of study or units of work. 3 s.h.

0841-0400 Selection and Utilization of Audio-Visual Materials

Sources, selection and evaluation of audio-visual aids; developing individual catalog of audio-visual aids; producing school-made aids; use of the latest equipment. 3 s.h.

0841-0420 Teaching Materials Workshop

Advanced problems in the utilization and administration of audio-visual materials; individual research; budgets; administrative set-up; establishment of film libraries, etc. Prerequisite: 0841-0400 or equivalent. 3 s.h.

0842-0430 Interaction Analysis

Objectifying observable one-to-one, or plural, interactive experiences. Analysis through the use of audio tapes, video tapes and the observation of experiences. 3 s.h.

0842-0431 Individual and Group Dynamics

Self-understanding and effective human relationships for teachers, administrators and supervisors. Individual behavior in learning groups and supervisory conferences; insight into the effects of one's behavior on others. 3 s.h.

0842-0432 Personal Values

Exploration of one's own values, their origins and alternatives. 3 s.h.

0841-0440 Television in Education Workshop: Programming and Production

Educational implications of television; the use of studio equipment, utilizing resources of the college, students, campus life and the community. Planning, script-writing and programming for all grade levels. Trips to laboratories and studios. Laboratory procedures. 3 s.h.

0841-0441 Television in Education: Instructional Utilization

Evaluation of current commercial offerings; production of experimental programs in various subject areas. Laboratory procedures; students select areas for specialized work. They may serve as assistants to the instructors in campus productions. 3 s.h. Prerequisite: 0841-0440.

0841-0445 Sounds in the Instructional Program

Using radio programs, amplifying systems, recording equipment, record players, tape recorders, duplicating equipment, synchronized pulsing equipment and dial access systems. Problems of script-writing, microphone and recording techniques and program directing. Students develop teaching units using sound equipment to vary, vitalize, improve and individualize instruction. 3 s.h.

School of Fine and Performing Arts

Donald M. Mintz, Ph.D., Dean

The School of Fine and Performing Arts consists of the departments of Fine Arts, Music, and Speech and Theater. Each offers preparation for careers in its disciplines, in public school teaching and in public service and managerial professions associated with the arts. Since the School believes that the arts are an essential part of a full life, it offers a substantial number of non-technical courses open to all. Separately and together, the departments offer courses that recognize significant contemporary developments: the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency to blur the boundaries between conventional artistic disciplines and the serious challenges to traditional notions of what art is.

Departmental programs take account of the demands of the artistic disciplines and insure that graduates will be technically competent in their chosen fields. Nevertheless, concentrations and course sequences are flexible.

Students participate in the governance of the School and its departments through representation on all committees and on the School Senate.

The School's facilities include two modern theaters, a recital hall, two music rehearsal halls, a theater-arts workshop, television and audio facilities and numerous arts laboratories, practice rooms and studios.

Because Montclair is close to New York City, students are able to take advantage of the city's unrivaled cultural and artistic resources.

General Education Requirements for the School of Fine and Performing Arts Common Core: Identical to those of the College as a whole regardless of the degree program pursued. See page 26

School Planned Core: Identical for all students of the School, regardless of the degree program pursued:

1. A course (or courses) in an art (or arts) in which the student is not majoring, selected from the offerings of the School of Fine and Performing Arts 4 to 12 s.h.
2. Courses in languages, linguistics, literature, life sciences, behavioral sciences, social sciences, physical sciences, philosophy, religion or mathematics. Normally these courses will be selected from the offerings of other Schools of the College. Courses in the areas and disciplines indicated may be given in many different departments, including some whose primary concerns are elsewhere .. 6 to 14 s.h.

REQUIRED TOTAL 18 s.h.

Since disciplinary needs and departmental preferences vary, students should consult with a member of the faculty of the department in which they will major, before registering for School Core courses. The rate at which these requirements can be satisfied depends upon the demands of each discipline. Details may be found in the departmental listings.

Students who plan to teach in the public schools must meet requirements set by the State Board of Examiners for teacher certification. These requirements may differ from the School's in a number of particulars.

Department of Music

Professors: Landsman; Mintz; Moore; Newlin; Randolph; Sacher; Wilkes,
Chairman

Associate Profesors: Hyman, Oneglia, Priesing, Shadel

Assistant Professors: Bate, Carr, Cooper, Girt, Greenblatt, Hayton, Pratt,
Present, Stevens, Waters, Wilt, Zemach

Instructor: Ho

The Department of Music, accredited by the National Association of Schools of Music and the National Association for Music Therapy, offers a major for students who wish to prepare themselves in professional fields as well as music courses for general students pursuing cultural enrichment.

A concentration in Music Education certifies the student to teach vocal, instrumental and general music and music theory in the public schools. The curriculum includes pedagogy, theory, history and applied music.

The concentration in Music Therapy prepares the student as a registered music therapist.

The sequences in Composition/Theory and Performance prepare the student to enter the profession in a chosen specialty.

Students who wish to major in music must have a departmental interview, achievement test and audition to evaluate their qualifications. Prospective music majors should possess musicality, primary and secondary performing skills and a knowledge of elementary music theory, and should give evidence of serious music study throughout the high school years. They are urged to participate in choral and instrumental organizations in high school and to study piano.

The Department of Music is located in several buildings which include the Edna McEachern Recital Hall, large rehearsal halls, teaching studios, an electronic keyboard laboratory, piano practice rooms, organ practice rooms, percussion studio, a library housing several thousand recordings, listening equipment, scores and books, and the Memorial Auditorium. The music collections in Sprague Library are unusually extensive.

The department maintains instruments of all types for student rental.

APPLIED MUSIC ENTRANCE REQUIREMENTS FOR ALL MUSIC MAJORS

PIANO PRIMARY

All major and harmonic minor scales, four octaves, hands together.
I, IV, V triads and inversions in all major and minor keys.

Sight-reading of a four-part Bach chorale.

Three compositions, at least one from memory:
Bach, an invention, a prelude and fugue, or a suite.

Haydn, Mozart, or Beethoven, a sonata.

A composition by a romantic or modern composer.

PIANO SECONDARY

All major scales, two octaves, hands alone.
1, IV, V triads, all positions, all major keys, hands alone.

Sight-reading of simple material, equivalent to Hannah Smith, *Sight-reading Exercises*, Pt. 1-4.

Evidence of satisfactory completion of the *Oxford Older Beginners Book*, or equivalent.

Two of the following: Bach, *Minuet in G*; Beethoven, *Sonatina in G*; Schumann, *Melody*.

All non-keyboard majors must study piano secondary (and take entrance placement examination if there has been previous study). It is strongly recommended that the entrance requirements in secondary piano be completed while the student is in high school.

Entrance requirements for the other secondary instruments may be obtained upon request.

A student will be admitted with a condition in his secondary instrument provided he has compensatory performance abilities on his primary instrument. He will not be permitted to enter the sophomore year until the condition has been removed.

ORGAN PRIMARY

All major and harmonic minor scales and chords through four octaves.

Two compositions for piano:

Bach, an invention (two or three parts); Beethoven, Chopin, Debussy, etc., a work of the student's choice.

At least one year of organ study. Suggested materials: Gleason, **Method for Organ**; Dickinson, **The Art of Organ Playing**; Carl, **Master Studies for Organ**.

Sight-reading of a hymn and a trio.

Three works from memory: Bach, a Prelude and Fugue; an adagio movement by any composer; a contemporary composition of the student's choice.

VOICE PRIMARY

Meet secondary piano entrance requirements. Evidence of a pleasing voice with good tonal placement, breath control and flexibility. (Previous study preferred but not required.)

Sight-reading of folk tunes and hymns.

Two songs, one from memory, demonstrating musical feeling, good intonation and clear dictation. Suggested material:

Soprano: Brahms, **Wiegenlied**; Quilter, arr., **Drink to Me Only With Thine Eyes**.

Contralto: Burleigh, arr., **Deep River**; Giordani, **Caro mio ben**.

Tenor: Barber, **The Daisies**; Purcell, **Passing By**.

Bass-Baritone: Franz, **Dedication**; Quilter, arr., **Drink to Me Only With Thine Eyes**.

Any selection of more difficult nature from standard opera and oratorio, or English, French, German, and Italian art song repertory.

VOICE SECONDARY

Ability to sing an art song with good intonation. Evidence of a voice giving promise of development.

STRING INSTRUMENT PRIMARY

Meet secondary piano entrance requirements.

All major and minor scales, two or three octaves. Sight-reading orchestral music of moderate difficulty.

Violin

Study materials such as those by Mazas, Wolfahrt, Kreutzer.

Corelli, Handel, Vivaldi, etc., a sonata.

Viotti, Vivaldi, Acolay, etc., a concerto.

Viola

Study materials such as Wolfahrt's **Foundation Studies**, Bks. 1 and 2.

A baroque solo sonata.

Violoncello

Study materials such as those by Lee, Dotzauer, Duport.

Goltermann, **Concerto No. 4**; Bach, **Arioso**, or equivalent.

Double Bass

Study materials such as Simandl (Bk. 1). Bach, **Minuet in G**; Corelli, **Sarabande**, or equivalent.

Classical Guitar

Milan, **Pavanes** (any three); deVisée, **Suite in D Minor**; Villa Lobos, **Preludes Nos. 1 and 4**.

DODD WIND INSTRUMENT PRIMARY

Meet secondary piano entrance requirements. Chromatic and all major scales, full range of instrument.

Sight-reading band and orchestra music of class A or B.

Flute

Study materials such as those by Boehm and Anderson, demonstrating a degree of technical advancement.

Bach, Handel, Telemann, etc., a sonata, preferably from memory.

Hindemith, Debussy, Varese, etc., a modern unaccompanied solo.

Oboe

Study materials such as Ferling, **Forty Etudes**. A standard solo sonata or concerto.

Clarinet

Study materials such as those by Klose, Baermann, Lazarus, Rose, demonstrating technical advancement.

Brahms, Spohr, Saint-Saens, etc., a standard solo.

Bassoon

Study materials from Weissenborn, **Method**, pp. 10-38. Mozart, **Concerto**, K. 191.

Saxophone

Study materials such as those by Karg-Elert, Massis, Traxler. A standard solo work.

BRASS INSTRUMENT PRIMARY

Meet secondary piano entrance requirements.

All major scales, two octaves where possible.

Sight-reading of band and orchestra music of Class A or B level.

Trumpet-Cornet

Study materials such as Arban, **Characteristic Studies**.

Haydn, **Trumpet Concerto** (any movement).

French Horn

Oscar Franz, **Method for Horn**.

Mozart, any movement from a concerto.

Trombone-Baritone

Tyrell, **Fifty Progressive Studies**.

Blazevich, **Concerto Sketch No. 5**.

Tuba

Arban, **Method** (bass clef) to be played one octave lower.

Bach-Bell, **Air and Bourree**, or equivalent.

PERCUSSION INSTRUMENT PRIMARY

Meet secondary piano entrance requirements.

Sight-reading of orchestral excerpts.

Snare Drum

Selected technical rudiments.

Timpani

Demonstrate ability to tune and execute single stroke roll.

Mallet Instruments

All major and minor scales, triadic arpeggios, a solo piece of the student's choice.

HARP PRIMARY

Meet secondary piano entrance requirements.

Three pieces from the following list, or equivalent.

Etudes by Bochsa, Pozzoli, **Etudes Modernes** of Salzedo.

Sonatas by Naderman, Krumpfholz.

Solos: **Two French Folksongs** by Grandjany; **Little Fountain** by Pratt; **Album Leaves** by Renie or works of equivalent difficulty.

Candidates concentrating in Music History and Literature are not required to study or audition on a primary instrument. They must, however, complete all other audition requirements, including secondary piano and declare their intention to follow the music history and literature concentration. Any transfer to another concentration will require an audition on a primary instrument, the availability of teacher time in the selected area, and permission of the department's chairman.

APPLIED MUSIC REQUIREMENTS FOR GRADUATION

Each music major is required to complete an applied music sequence which includes the perform-

ing skill on which his acceptance to the department was based, and a sequence in a secondary medium. Either the primary or secondary will be a keyboard instrument.

The amount and extent of study in applied music varies with the area of concentration.

Students majoring in performance and music education will present a graduation recital in the primary performing medium during the senior year. Secondary instruments are taught in class and/or privately, if teacher time is available.

All music students will study with applied music teachers provided by the College. Instruction in applied music during the summer session is taken at the student's expense. Students are expected to accompany on the piano at a level of their ability designated by their teachers, and to participate actively in the musical life of the College and Community.

PERFORMANCE REQUIREMENTS FOR PROFESSIONAL SEMESTER

Any student who expects to participate in the student teaching program must meet the requirements for 1004-7106 SECONDARY PIANO.

INSTRUMENTAL RENTAL

A fee of \$20.00 per semester will be paid by students who rent college-owned instruments. An instrument rental fee will also be paid for summer rental.

ENSEMBLE REQUIREMENTS

All music majors are required to participate in primary and alternate ensembles each semester. Students pursuing the Teacher Education concentration are excused from ensemble only for the semester in which they are engaged in the professional semester off-campus. The department chairman may assign any music major to additional ensemble semesters in excess of the minimum requirements as the needs of the department may require.

A "primary" ensemble is one in which the student's major performing area forms the nucleus of the ensemble. For those majoring in brass, woodwinds or percussion, the primary ensemble is band; for those majoring in strings, the primary ensemble is orchestra; for those majoring in voice, the primary ensemble is choir. For those majoring in other instruments (guitar, piano, organ, for example) the primary ensemble will

be choir unless otherwise assigned by the Department Chairman.

An "alternate" ensemble is instrumental if the student is a voice primary or the choir if the student is an instrumental primary.

Music Education: 7 primary semesters, 5 alternate semesters.

Performance: 8 primary semesters, 4 alternate semesters

Music Therapy: 8 primary semesters

Composition/Theory: 8 semesters in ensemble of student's choice subject to the approval of the department chairman.

History and Literature: 8 semesters in ensemble of student's choice are recommended, subject to the approval of the Ensemble Director.

GENERAL POLICIES:

1. The manner in which the ensemble requirements are to be fulfilled depends on the student's skills. The student is subject to placement and assignment by the conductors and/or the department chairman.
2. Students may not participate simultaneously in more than two ensembles without written permission from the department chairman.
3. Members of the orchestra will be selected by the orchestra conductor in consultation with the teachers of primary performing media and with the approval of the department chairman.
4. Students selected to play in both band and orchestra may request a waiver of the alternate ensemble requirement in writing from the Department Chairman.
5. All students are expected to regard ensemble performance as a major professional experience and to exercise great responsibility in attending rehearsals, learning music, maintaining performance decorum, being punctual and dressing appropriately.

RECITALS

Faculty Recitals and Senior Graduation Recital are given in the Edna McEachern Recital Hall and Memorial Auditorium. Student recitals are given weekly and all music majors are required to attend. Performance in student recitals is subject to approval by the applied teacher.

All students must enroll in 1015-0029, Student Recital, each semester. No music major may register for a class at the recital hours without the written permission of the Department Chairman.

Concentration in Theory—Composition

Applied Music

Primary Instrument	semester hours
Secondary Instrument	
Ensembles	

Music Theory and History

1016-0101, 0102, 0201, 0202, 0301, 0302 (Music Theory I-VI)	
1016-0341, 0342, 0343, 0344 (Music Composition I-IV)	
1006-0307, 0308 (Music History I, II)	

Theory elective

Additional Music Requirements

0832-0105 Strings I	
0832-0335 Elementary Conducting	
0832-0429 Choral Conducting	

Music electives

REQUIRED TOTAL

NOTE: Students are required to participate in at least one primary ensemble each semester.

The collateral course 1902-0105 Acoustics may be applied to General Education Requirements.

Concentration in Music Therapy

	semester hours
Applied Music	
Primary Instrument	8
Secondary Instrument	6
Ensembles	4
Secondary Guitar	2
Secondary Organ	2
Music Theory and History	
1016-0101, 0102, 0201, 0202, 0301 (Music Theory I-V)	19
1006-0307, 0308 (Music History I, II)	6
Music Therapy	
0832-0105 Strings	1
0832-0205, 0206, 0306 (Brass, Woodwinds, Percussion Instruments)	3
0832-0335 Elementary Conducting	2
0832-0429 Choral Conducting	2
1015-0150 Influence of Afro-American Music on Culture	2
1017-0460 Recreational Music in Therapy	2
REQUIRED TOTAL	59

To complete the National Association of Music Therapy requirements the following additional courses are required:

Psychology	12
Introduction to Music Therapy	4
Influence of Music on Behavior	3
Music in Therapy	3
Psychological Foundations of Music	4
Clinical Experience	2
REQUIRED TOTAL	28

The collateral course 1902-0105 Acoustics may be applied to General Education Requirements.

Concentration in Music Performance

	semester hours
Applied Music	
Primary/Major Instrument	32
Secondary Instrument	6
Ensembles	6
Music Theory and History	
1016-0101, 0102, 0201, 0202, 0301, 0302 (Music Theory I-VI)	22
1006-0307, 0308 (Music History I, II)	6
Additional Music Requirements	
0832-0105 Strings I	1
0832-0335 Elementary Conducting	2
0832-0429 Choral Conducting	2
Electives	4
REQUIRED TOTAL	81

Note: 1. Full length recital in the senior year is required.

2. Students are required to participate in at least one primary ensemble each semester.

The collateral course 1902-0105 Acoustics course may be applied to General Education Requirements.

Concentration in Music Education

Applied Music		semester hours
Primary Instrument		14
Secondary Instrument		6
Ensembles		6
Music Theory & History		
1016-0101, 0102, 0201, 0301, 0302 (Music Theory I-VI)		22
1006-0307, 0308 (Music History I, II)		6
Professional Sequence in Music Education		
0832-0105 String Instruments		1
0832-0205 Brass Instruments		1
0832-0206 Woodwind Instruments		1
0832-0306 Percussion Instruments		1
0832-0335 Elementary Conducting		2
0832-0420 Secondary Methods		3
		REQUIRED TOTAL
		63

Note: Students are required to take at least one primary ensemble each semester, except during the professional semester. A senior recital of at least 30 and no more than 35 minutes of music is required in the seventh semester of the primary instrument.

To complete State Certification Requirements the following additional courses are required:

Psychology (2001-0101, 0200)	6
0832-0320 Elementary Music Methods	3
Junior Field Experience	1
Professional Semester	13

REQUIRED TOTAL

23

The collateral course 1902-0105 Acoustics may be applied to General Education Requirements.

Concentration in Music History and Literature

Applied Music and Theory		semester hours
Secondary Instrument: Piano		8
1016-0101, 0102, 0201 (Music History I-III)		12
Music History and Literature		
1006-0307, 0308 (Music History I, II)		0
1015-0100 Introduction to Music		0
1015-0337 The Opera		0
1015-0338 Orchestral Literature		0
1015-0339 Music in Modern Society		0
Additional Music Requirements		
0832-0335 Elementary Conducting		
Two of the following:		
0832-0105 Strings I		
0832-0205 Brass Instruments		
0832-0206 Woodwind Instruments		
0832-0306 Percussion Instruments		
		REQUIRED TOTAL

4

NOTE. It is recommended that students participate in ensembles each semester.

COURSE DESCRIPTIONS

0832-0105 String Instruments

Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes. 1 s.h.

0832-0132 Marching Band Techniques

Methods, organization and planning; drill design, playing, rehearsal techniques. 2 s.h.

0832-0205 Brass Instruments

Elementary skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes. 1 s.h.

0832-0206 Woodwind Instruments

Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments, organizing woodwind classes. 1 s.h.

0832-0302 Teaching Music in the Elementary Grades K-6

Principles, techniques, materials and methods; child's voice, aids for off-pitch singers, rote-song procedures, rhythms, creativity, discriminate listening, development of music reading, beginning instrumental programs. 3 s.h.

Prerequisite: 1016-0202.

0832-0306 Percussion Instruments

Elementary skills on snare drum, bass drum, timpani, cymbals, bells, etc.; materials and methods for teaching these instruments in the classroom. 1 s.h.

0832-0334 Choral Technique

Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting. 2 s.h.

Prerequisite: 1016-0202.

0832-0335 Elementary Conducting

Baton technique and clef reading in orchestral and choral scores.

2 s.h.

Prerequisite: 1016-0202.

0832-0336 School Orchestras and Bands

Organization; selection, purchase and care of instruments; evaluation of materials; techniques of instruction; substitution of parts, rehearsal routine; marching band; repertory suitable for high school orchestras and bands. 2 s.h.

Prerequisite: 0832-0205, 0832-0206.

0832-0405 Orchestra Conducting and Score Reading

Ear training appropriate to conducting, baton technique, score reading, interpretation.

Prerequisite: 0832-0335 and 1016-0302 or equivalent. 2 s.h.

0832-0420 Teaching Music in Secondary Schools

Philosophy, aims, content and procedures in junior and senior high school music education; teaching general music; incorporation of new methods; lesson plans and units of work for classroom use. 3 s.h.

Prerequisite: 0832-0302

0832-0429 Choral Conducting

Professional work for teachers-in-service; tone production, tuning, posture, score reading, interpretation and techniques of choral conducting; materials suitable for use in high school. 2 s.h.

Prerequisite: 0832-0335.

0832-0430 Problems in Teaching School Music

Restricted to those who have completed student teaching. Evaluation of student-teaching experiences; teaching problems and solutions; overview of music education.

Prerequisite: 0832-0420 and completion of student teaching. 2 s.h.

0832-0431 Workshop in Public School Music

Professional workshop for teachers-in-service. Problems of scheduling, curriculum-planning and in-service workshops for classroom teachers.

2 s.h.

1004-0000 Applied Music

Instruction in flute, oboe, clarinet, saxophone, bassoon, French horn, trumpet, baritone horn, trombone, tuba, percussion, harp, piano, organ, voice, violin, viola, violoncello, double bass and guitar.

A listing of course numbers for primary and secondary performing media is available in the office of the Department of Music as are suggested course sequences for the areas of concentration.

1004-0030 Choir	1½ s.h.
1004-0031 Orchestra	1½ s.h.
1004-0032 Band	1½ s.h.
1004-0033 Marching Band	1½ s.h.
1004-0034 Opera Workshop	

Musical theater studied through performance; nature of dramatic music, problems of movement, make-up, costuming, props and scenery. Open to juniors and seniors and to lower classmen by permission. Accompanying and singing roles assigned by audition.

2 s.h.

1004-0300 Stage Band and Improvisation Laboratory

Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom.

2 s.h.

1004-0408 Chamber Music

Representative chamber works studied through concert attendance, performance and directed listening. Open to all students by audition.

3 s.h.

1004-0461 Project in Music I—Opera Production

Student production and direction of a contemporary opera, folk musical or original work. Open to all students by audition.

3 s.h.

1006-0000 Music History and Literature

The following courses may also be considered courses in Music History and Literature
1015-0100, 0150, 0209, 0309, 0337, 0338, 0340, 0462.

1006-0201 Metropolitan Opera—Seminar in the Study of Opera

Study of opera at the Metropolitan Opera House; observation of rehearsals, lecture demonstrations; on-site study of technical aspects of opera production. Additional research opportunities provided for a third credit hour.

2 or 3 s.h.

1006-0307 Music History I

Styles, genres and shaping forces of Western music from the rise of polyphony in the early Middle Ages through the early works of Beethoven.

3 s.h.

Prerequisite: status as a music major or permission of the instructor.

1006-0308 Music History II

Continuation of 1006-0307, beginning with Beethoven; the music of the Romantic Era manifested in the nineteenth and twentieth centuries; major currents of the Modern Era.

3 s.h.

Prerequisite: status as a music major or permission of the instructor.

1006-0407 Music History III

Major figures, forms, genres and styles from Debussy to the present.

3 s.

Prerequisite: status as a music major or permission of the instructor.

1006-0462, 0463 Seminar in Music I, II

Research on a project or problem in an area selected by each student with the instructor's approval; conducted in America or abroad.

3 s.h. €

Prerequisite: permission of the instructor.

1015-0029 Student Recital

All music majors must register for this number in order to free their schedules for recital commitments

1015-0100 Introduction to Music

Expansion of musical awareness through live performance and directed listening. 3 s.h.

1015-0150 Influence of Afro-American Culture on Music

Ways in which the Afro-American culture has colored the development of American folk and art music. 2 s.h.

1015-0170 Recreational Music for the Large Group

Opportunity for all students, whether majoring in music or not, to participate in group musical activities. The specific character of the course will be determined by the class. 3 s.h.

1015-0209 Introduction to Jazz

Jazz as an American phenomenon; musical materials as manipulated by jazz artists, the impact on American popular music, dance and theater; early jazz players and developments. 3 s.h.

1015-0309 The Art of Jazz

Development of jazz in America and abroad, sociological implications in American society and the impact of jazz upon contemporary composition. 3 s.h.

Prerequisite: 1015-0209 or permission of the instructor.

1015-0337 The Opera

Styles and approaches in music for purposes of dramatic characterization, atmosphere and plot development; representative works in English, Italian, French and German, from Monteverdi to the present. 3 s.h.

1015-0338 Orchestral Literature

Representative genres and styles for large instrumental ensembles from the early Baroque era to the present. 3 s.h.

1015-0339 Music in Modern Society

The nature, function and forms of music in modern society in terms of social, cultural and political forces; church music, royal patronage, nationalism, music and industry, politics and entertainment. Particularly recommended for majors in the social sciences. 3 s.h.

1015-0340 Music of the Romantic Period

The romantic spirit in nineteenth-century and selected modern works; program music, piano and song literature, and national schools of composition; performance and directed listening; parallel aspects of literature and the visual arts. 2 s.h.

1015-0351 Music in Urban Society

Organization and management of concert halls, opera companies, music publishing firms and recording companies; financing and anticipating the needs of the urban community; construction and acoustics of halls and theaters. 3 s.h.

1015-0352 Music and Film

Aesthetic and social effects of music on cinematography: enhancing plot, augmenting visual qualities and focusing audience attention; music from early silent films to modern; no previous music or film experience required. 3 s.h.

1015-0426 Survey of Music Literature

for the general student. Folk and art song, oratorio, opera, idealized dance forms, instrumental suites, symphonic poem; principles of musical form. 3 s.h.

1015-0462 Project in Music II—Study Tour

Course description available in Winter Session brochure. Open to all students, but limited to enrollment of twenty. Special fee to be announced. Pass/fail. Available only in Winter Session. 3 s.h.

1016-0101 Theory I**1016-0102 Theory II****1016-0201 Theory III****1016-0202 Theory IV****1016-0301 Theory V****1016-0302 Theory VI**

Integrated study of melody, counterpoint, harmony, ear training, sight reading, analysis, orchestration and composition. Meets five hours weekly.

4 s.h. ea.

1016-0301 Counterpoint

Polyphonic textures, including writing, dictation and analysis.

3 s.h.

Prerequisite: 1016-0202.

1016-0302 Orchestration

Range, tuning, transportation and use of all band and orchestral instruments; practical arranging for various combinations of instruments and completion of a full score.

3 s.h.

1016-0430 Structural Analysis

Formal organization of selected compositions.

2 s.h.

1016-0341 Composition**1016-0342 Composition**

Restricted to majors in Theory/Composition.

2 s.h. ea

1016-0401 Musical Composition

Vocal and instrumental forms, styles and techniques of twentieth century composers.

2 s.h.

Prerequisite: 1016-0202.

1016-0412 Electronic Composition

3 s.h.

1016-0415 Theory Pedagogy

Introduction to teaching methods and materials for developing theory programs in the secondary schools.

2 s.h.

1016-0441 Private Study in Composition**1016-0442 Private Study in Composition**

Restricted to majors in Theory/Composition.

2 s.h. ea.

Prerequisite: Permission of Instructor.

1017-0160 Introduction to Music Therapy I

For students majoring in Music Therapy or for students from other areas of music study
Ways in which attitudes are formed and changed; attitudes of therapist and society toward the patient.

2 s.h.

1017-0261 Introduction to Music Therapy II

Function of the therapist; types of patients usually encountered in a music therapy department; Music Therapy I not required, although most students take both courses.

2 s.h.

1017-0360 Clinical Experience I

Three months of training in a treatment facility as a psychiatric aide or assistant in an adjunctive therapy area; orientation to hospital practice and daily contact with patients

1 s.h.

Prerequisite: 1017-0160 or 1017-0261.

1017-0460 The Use of Recreational Music in Therapy

Music activities with handicapped individuals; presenting activities, encouraging participation and making adaptations for special types of handicaps.

2 s.h.

1017-0461 Influence of Music on Behavior

Concepts from psychology, sociology, biology, and anthropology relating to musical behavior.

3 s.h.

Prerequisites: Ability in Applied Music comparable to that required of candidates for baccalaureate in music; 4 hours of Biology; 3 hours of Psychology.

1017-0462 Music in Therapy

Music as adjunctive therapy in treatment of exceptional children and the mentally ill.

Prerequisite: 1017-0461 or 1017-0463.

3 s.h.

1017-0463 Psychological Foundations of Music I (Also listed as 2001-0407)

Inter-relations of physical and psychological aspects of music; perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research.

2 s.h.

Prerequisites: Acoustics of Music; 3 hours of psychology.

1017-0464 Psychological Foundations of Music II

Continuation of 1017-0463.

2 s.h.

1017-0465 Clinical Experience II

Six months of clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.

1 s.h.

Prerequisite: Completion of all course work leading to a baccalaureate degree or equivalent.

Department of Fine Arts

Professors: Kampf; Martens, Chairman; Newlin; Vernacchia

Associate Professors: Chapman, Lockwood, McCreath, Ross, Schiebel

Assistant Professors: Barnet, de Leeuw, Geiss, Kahn, Kyle, Lay, Mohammed, Schlossman, Silver, Siporin, Watkins, Westfall

Instructors: Adams, Barris, Carter, Cicero, Crystal, Czernowicz, Goldring, Hilton, Nathan, O'Connell, Rosenberg, Schnitzer, Seplowin, Walsh, Weis, Winter, Kochka, Feld

Exchange Professor: Gorelick

The Department of Fine Arts offers five major concentrations and is open to majors in other fields for humanities or free electives.

The following Basic Core is required of majors in all Fine Arts Department programs except Art History:

	semester hours
1001-0101, 0102 Design I, II	3 ea.
One course from each of the following groups:	
a. 1003-0215 Ancient Art	3
1003-0328 A Survey of Greek Art	3
1003-0332 The Ancient Art of Europe	3
1003-0485 Ancient Art in Italy: Etruscan	3
b. 1003-0216 Renaissance Art in Italy: 15th Century	3
1003-0322 Early Christian and Byzantine Art	3
1003-0452 Renaissance Art in Italy: 16th Century	3
1003-0324 Northern Renaissance Painting	3
c. 1003-0450 Modern Architecture	3
1003-0459 Art of the 18th Century	3
1003-0460 19th Century American Architecture	3
1003-0461 19th Century American Painting	3
1003-0469 The Art of the 20th Century	3

Requirements for the five art major programs are as follows:

A. **Studio in Painting, Sculpture, Graphics, Photography, Cinematography:** a liberal arts program for students who desire professional preparation as artists.

semester hours

I. Basic Core Requirements 15

II. Required: 22 hours from medium of choice and related areas

Example: Recommended for a Concentration in Photography 1011-0213, 0214, 0310, 0311, Photography: A Contemporary Art Form	2 ea.
4921-0314 Printmaking I or	2
4921-0357 Screen Printing I	2
1002-0449 Art & Technology	3
1003-0484 History of Photography	3
1001-0468 Externship & Field Experience I	3
4921-0470 Independent Study in Multi-Image Media	4

REQUIRED TOTAL 37

Selected art electives

B. Studio in Crafts: liberal arts program for students who desire professional preparation as craftsmen.

I. Basic Core Requirements	15
----------------------------------	----

II. Required: 22 hours from medium of choice and related areas

Example: Recommended for a Concentration in Ceramics

1090-0202, 0203, Ceramic: Pottery and 0301, 0302 Sculpture I, II, II, IV	3 ea.
1001-0107, 0108 Drawing I, II	2 ea.
1002-0244 Sculpture I or 1002-0245, 0246, 0247, 0248	2
1001-0465 Externship & Field Experience	4

REQUIRED TOTAL 37

Selected art electives

C. Art History: Exploring the art of past civilizations and cultures as well as contemporary art forms.

semester hour

I. Basic Core Requirements	6
1001-0101, 0102 Design I, II	3 ea.

II. Program Requirements

1003-0215 Ancient Art	3
1003-0463 Resources & Methods of Research in the Arts	3
1003-0462 Senior Seminar	3

6 semester hours from the following:

1003-0323 Medieval Art	3
1003-0216 Renaissance Art in Italy: 15th Century	3
1003-0324 Northern Renaissance Painting	3
1003-0325 17th and 18th Century Art	3

6 semester hours from the following:

1003-0457 Primitive Art	3
4922-0487 Afro-American Art	3
1003-0328 Survey of Greek Art	3

III. Art History Electives—6 semester hours

REQUIRED TOTAL 33

D. Studies in the Visual Arts: For the student seeking an understanding and an appreciation of the arts and of the creative process.

semester hour

I. Basic Core Requirements	15
----------------------------------	----

II. Program Requirements

1003-0463 Resources & Methods of Research in the Arts	3
1003-0462 Senior Seminar	3
1003-0456 Modern Philosophies of Art	3

4 semester hours from studio courses	4
--	---

12 semester hours from three of the following groups:

a. History of Art including

1010-0220	History of the Cinema as Art	3
1090-0303	History of Textiles	3
1011-0484	History of Photography	3
4921-0464	History of the Print	3

b. Society and the Arts

4922-0478	Art in Public Places	3
4922-0340	Selected Problems in Urban Cultural Dev.	3
4922-0341	History of City Form	3
2208-0231	Social Bases of the Arts	3
2208-0307	The City and the Arts	3
2208-0332	Sociology of Popular Arts	3

c. Art Criticism

1003-0326	The Critical Approach	3
1003-0451	Critical Views of Contemporary Art	3

Selected Art Electives

REQUIRED TOTAL 37

E. Fine Arts Education: For those who wish to teach art. Certification is for Grades K through 12.

	semester hours
Students must complete the Professional Sequence of 23 s.h.	
I. Basic Core Requirements	15
II. Art Education Requirement	
1001-0300 Foundations of Methods and Curriculum in Art Education: K-12	3
III. Art Requirements:	
1090-0202 Ceramics: Pottery & Sculpture I	3
1001-0107 Drawing I	2
1001-0209 Theater Arts I	2
1090-0318 Metalwork & Jewelry I	2
1090-0204 Textiles I	2
1011-0213 Photography: A Contemporary Art Form I	2
1002-0200 Painting I	2
1001-0312 Art in Commerce and Industry I	2
4921-0314 Printmaking I	2
1002-0244 Sculpture I or 0245, 0246, 0247, or 0248	2
IV. Art Electives	11
	REQUIRED TOTAL 50

F. Multi Image Media (Service Courses)

	semester hours
1010-0400 History of the Cinema as Art I	3
1010-0218, 0219, 0339, 0499 Filmmaking I, II, III, IV	3 ea.
1010-0472, 0473 Projects in Filmmaking I, II	3 ea.
1002-0449 Art and Technology	2
1010-0221, 0222, 0336, 0474 Television as an Art Form I, II, III, IV	3 ea.
1010-0475, 0476 Projects in Television I, II	2 ea.
4903-0196 The Film	3
4903-1299 Literature and Art in Western Culture	2
1505-0474 Modern Drama on Film	3
4903-0296 The Contemporary Film	3

G. Urban Cultural Development and Design (Service courses)

4922-0337	Explorations in Contemporary uses of Art	2
4922-0223, 0224, 0338, 0477	Shelter Form as Art I, II, III, IV	3 ea.
4922-0351, 0352, 0481, 0482	Community Form as Art I, II, III, IV ..	3 ea.
4922-0478	Art in Public Places	3
4922-0340	Selected Problems in Urban Cultural Development	3
4922-0479	Independent Investigation in Urban Cultural Development	2-8
4922-0480	Urban Arts Program Planning	3
4922-0341	History of City Form	3
4922-0490	Field Problems in Urban Cultural Development	3
4922-0487	Afro-American Art	3
1015-0351	Music in Urban Society	3
1015-0339	Music in Modern Society	3
4922-0310	Theater in the Urban Environment	3
2208-0307	The City and the Arts	3
2208-0333	Community Organization in the Arts	3
2208-0332	Sociology of Popular Arts	3
2208-0231	Social Bases of the Arts	3
2208-0300	Externship in Society	3
2208-0410	Social Action Practicum	3
2208-0409	Selected Problems in Sociology	3
2208-0462	Peoples and Cities	3

Interdepartmental and Interdisciplinary Studies

Over the past few years the three departments of the School have developed programs to facilitate interchange among them. They have also joined with other Schools to design concentrations offering preparation for careers in areas associated with the arts (such as arts management) or careers involving novel ways of viewing the arts and their role in society. In some programs, off-campus work is emphasized.

Four such concentrations are available:

- | | |
|----------------------|--|
| 1. Dance-Theater | 3. Urban Cultural Development and Design |
| 2. Multi-Image Media | 4. Arts Management |

Under the College's Alternative Curriculum Plan, students are free to design interdisciplinary programs for themselves; they are not required to pursue the programs already devised by the School. Indeed, it is expected that their efforts will yield further programs that others may wish to follow.

A student in an interdisciplinary program selects a major concentration from among those offered by the three departments and fulfills the minimum requirement for the Bachelor of Arts in that concentration. He also chooses a pattern of courses and off-campus work designed to meet his particular artistic objective.

Such programs should have a sound rationale; they must be internally coherent and intellectually and professionally defensible. Newly-devised programs must be approved by the academic advisor and by faculty members in the departments most concerned.

Untraditional programs require closer cooperation among students, faculty members and academic advisors than do conventional courses of study. Faculty members have filed model programs in a number of different areas with the School's academic advisor who can direct students to faculty members for further discussion.

The model for Urban Cultural Development, for instance, emphasizes School course dealing with the social bases of the arts. This program furnishes preprofessional education for careers in public arts administration, leisure/ recreation program planning, community and urban design and many other areas.

COURSE DESCRIPTIONS

0831-0114 Creativity Awareness

A foundation course in the fundamental awareness which underlies all artistic endeavors. Releasing creative blocks and inhibitions through exercises and assignments to stimulate the imagination and awaken the core creative self. 3 s.h.

0831-0200 Creative Use of Media for Art Education

The development of creative effects through the use of audio-visual equipment by the exploration of ways and means suitable to the visual arts area. Art films, slides, two and three-dimensional materials, light and sound techniques. 3 s.h.

0831-0300 Foundations of Methods and Curriculum in Art Education: K-12

Behavioral and visual development of the child in plastic and graphic media; materials, facilities and equipment and their sources; the organization and presentation of art experiences; curriculum construction based on art as a visual response to life. For Fine Arts Education majors this course must be taken simultaneously with Teacher School and Society in the Spring of the Junior Year. 3 s.h.

Prerequisites: General Psychology OR Human Growth and Development, Educational Psychology, Teacher Assists Program (For Fine Arts Majors only).

0831-0305 The Urban Art Teacher

A practical analysis of the role of the art teacher in a public school setting, urban and inner-city. Environment, facilities, equipment, supplies and professional interaction. 2 s.h.

0831-0310 Group Art Therapy and Creativity Development

An undergraduate course providing insight into self-behavior. Through student participation, a deepening appreciation of the creative process, understanding of self and the relationship between art and psychology. 3 s.h.

0831-0410 Introduction to Art Therapy and Creativity Development

Art Media are used to create actual forms that express feeling-thinking patterns. Discussion is aimed at recognizing how art forms reflect assumptions, attitudes and choices. A variety of modalities used in processing personal symbolism, fantasy and dreams. 3 s.h.

001-0100 Introduction to the Visual Arts

The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, print making, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors. 3 s.h.

001-0101, 0102 Design I, II

Required of all art majors. Foundations of visual organization, structured to develop the visual and verbal vocabulary, through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line, color, plane, texture, form, shape and time as basic elements in all art forms. Two- and three-dimensional concepts introduced through a variety of materials and processes. Reading assignments, museum and gallery visits. 3 s.h. ea.

001-0400, 0401, 0402, 0403 Independent Study in Design I, II, III, IV

Topics for investigation selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

001-0107, 0108, 0207, 0208 Drawing I, II, III, IV

Basic elements of line, point, shape, figure ground, and space relationships.

Prerequisites: Taken serially and with instructor's approval

2 s.h.

001-0404, 0405, 0406, 0407 Independent Study in Drawing, I, II, III, IV

Topics for investigation selected with the approval of the instructor.

3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

1001-0103, 0104, 0339, 0486 Visual Arts Studio I, II, III, IV

For students of limited experience; the art forms (painting, sculpture, drawing, crafts) experienced through exploration of natural, found and manufactured materials. Creative experiences in studio work; relating art to the student's primary area of knowledge; the part art experience can play in his life. 3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

1001-0209, 0210, 0306, 0307 Theater Arts I, II, III, IV

Visual art aspects of the theater with emphasis on techniques of group planning; scenery design and preparation, lighting, special effects, sound, slides, film, dance, puppets and marionettes. 2 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

1001-0420 Independent Study in Theater Arts

Topics for investigation are selected with the approval of the instructor. 3 s.h.

Prerequisite: Instructor's approval

1001-0312, 0313 Art in Commerce and Industry I, II

The machines, tools, materials, techniques and methods of commercial art; lettering type layout, advertising design and illustration, layouts and paste-ups, reproduction techniques, poster making. 2 s.h. ea.

Prerequisites: Taken serially

1001-0320, 0321, 0441, 0442 Life Drawing I, II, III, IV

The structure and proportions of the human form; expressive drawing is emphasized. 2 s.h. e.

Prerequisites: Taken serially

1001-0443, 0444 Independent Study in Life Drawing I, II

Topics for investigation are selected with approval of the instructor. 3 s.h. e.

Prerequisites: Taken serially and with consent of the instructor

1001-0445, 0446 Multi-Media I, II

Group work to create a multi-media environment and to perform a multi-media mix creation of the theatrical, architectural, sculptural and technological props and the program for the mix; the psychology of a total art experience. 2 s.h. e.

Prerequisite: Taken serially

1001-0448 Critique in Art

Discussions of their work by students from various studio areas; visiting artists will occasionally join. For fine arts majors of advanced standing. 1 s.

Prerequisite: Consent of the instructor

1001-0465, 0466, 0467, 0468 Externships and Field Experience I, II, III, IV

Involvement beyond the campus in a museum, art institution or industry; participation in inner city arts programs or study with an independent artist or craftsman.

Prerequisites: Taken serially and with coordinator's approval 2-8 s.h.

1002-0200, 0201, 0316, 0317 Painting I, II, III, IV

Works in the many media and with the many forms; readings in the development of painting from the Impressionists to today; gallery and museum visits. 2 s.h. e.

Prerequisites: Taken serially

1002-0408, 0409, 0410, 0411 Independent Study in Painting I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. e.

Prerequisites: Taken serially and with consent of instructor

1002-0361 Figurative Painting

To sharpen skills in rendering the human figure and express creative insights into figurative painting. 2 h.

Prerequisite: Life Drawing I and Painting I, or permission of instructor

1002-0211, 0212, 0308, 0309 Sculpture I, II, III, IV

Various sculptural concepts using materials like plaster, metal, plastics, stone and wood; gallery and museum visits. 2 s.h. ea.

Prerequisites: Taken serially

1002-0244, 0254, 0344, 0488 Sculpture: Modelling & Casting I, II, III, IV

Forming by the additive process using one or more mold-making techniques; clay, plaster, cement and plastics. Further modelling and casting processes investigated according to the student's needs. Museum visits and reading assignments. 2 s.h. ea.

Prerequisites: Taken serially

1002-0245, 0255, 0345, 0495 Sculpture: Carving I, II, III, IV

Sculpture formed by the subtractive process of carving in wood and/or stone primarily. Techniques of sharpening, making and maintaining tools. Museum visits and reading assignments. 2 s.h. ea.

Prerequisites: Taken serially

1002-0246, 0256, 0346, 0496 Sculpture: Metal Casting I, II, III, IV

Basic technology of metal casting in the lost wax process; experimentation with the various materials related to the casting process; modelling, spruing and venting, investment of the model, burn-out of the mold, pouring the metal, cleaning, chasing and finishing the metal cast. Museum visits and reading assignments. 2 s.h. ea.

Prerequisites: Taken serially

1002-0257, 0257, 0347, 0497 Sculpture: Fabrication I, II, III, IV

Sculpture formed by constructive methods; form and space relationships. A professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Size of finished work will be no less than one cubic yard and no larger than the metropolitan area. Museum visits and reading assignments.

Prerequisites: Taken serially 2 s.h. ea.

002-0248, 0258, 0348, 0498 Sculpture: Welding/Brazing I, II, III, IV

Sculpture in metal realized through welding, brazing and soldering. Various metals used in a variety of processes enable the student to develop three-dimensional works. Museum visits and reading assignments. 2 s.h. ea.

Prerequisites: Taken serially

002-0421, 0422, 0423, 0424 Independent Study in Sculpture I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

002-0215 Art Forum

An opportunity for students to meet a series of internationally-known critics, museum directors and artists in lecture presentations. 1 s.h.

002-0447 Landscape Painting

Interpretation of landscape as a unique source of pictorial ideas; the history of landscape painting. 2 s.h.

002-0449 Art and Technology

Innovative techniques in design, painting and sculpture involving new media; simple technology methods that can be readily employed in search of new forms. 2 s.h.

003-0105, 0106 Art and Civilization I, II

The history of art from its beginnings to the present; museum visits and extensive reading. Required for fine arts majors. 3 s.h.

Prerequisites: Taken serially

003-0215 Ancient Art

The origins of man's art and the civilizations of the ancient world: Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations. 3 s.h.

1003-0216 Renaissance Art in Italy: The Fifteenth Century

The formation of Renaissance painting, sculpture, and architecture during the quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized. 3 s.h.

1003-0217 Selected Masterpieces of World Art

An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period; museum and gallery trips, readings and discussion. For students majoring in other fields. 3 s.h.

1003-0322 Early Christian and Byzantine Art

The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art. 3 s.h.

1003-0323 Medieval Art

Painting, sculpture and architecture in the Romanesque and Gothic periods 3 s.h.

1003-0324 Northern Renaissance Painting

Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald. 3 s.h.

1003-0325 Seventeenth and Eighteenth Century Art

Painting, Sculpture, and Architecture in western Europe from 1600 to 1800: Baroque and Rococco styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau. 3 s.h.

1003-0326 The Critical Approach

Historical criticism, criteria in art criticism, and an analysis of the critical process. 3 s.h.

1003-0327 History of Oriental Art

The factors that shaped Oriental society; the art of China, Korea, Japan, India, south east Asia and the neighboring Islamic world. 3 s.h.

1003-0328 Survey of Greek Art

Greek Art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period. 3 s.h.

1003-0329 American Art

Art in the United States from the Colonial period through the nineteenth century the development of an American style in the light of its relationship to and dependence upon European art. 3 s.h.

1003-0331 Modern Art

Movements, personalities and styles from the late nineteenth century masters to Cubism, Futurism, Surrealism and other schools that shaped the modern movement. Lecture readings, museum visits. 3 s.

1003-0332 Ancient Art of Europe

The non-classical traditions in prehistoric and early medieval Europe; the continuity native, anticlassical artistic trends from the cave art of Paleolithic Europe to the migration arts of the early middle ages: the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings. 3 s.

1003-0450 Modern Architecture

Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design. 3 s.

1003-0451 Critical Views of Modern Art

The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism. 3 s.

1003-0452 Renaissance Art in Italy: The Sixteenth Century

The great masters of the cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of Mannerism and art and architecture in Rome, Venice, Florence and Bologna. 3 s.h.

1003-0454 Field Trips in Art History I

An intensive, three week tour of major centers of art in conjunction with specific courses in art history; e.g., field trips to England, France, Holland, Italy, Greece, Mexico and to various American cities and areas. 2-8 s.h.

1003-0455 Selected Problems in Art History

A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure), or a particular technique (e.g. sculpture); lectures, reports, museum and studio visits, discussion. 3 s.h.

1003-0456 Modern Philosophies of Art

The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions; the development of sentiments and attitudes affecting thinking in the field. 3 s.h.

1003-0457 Pre-Columbian, Oceanic and African Art

The major styles of Oceania, Africa, South and Central America before Columbus. 3 s.h.

1003-0458 Traditional Arts of Sub-Saharan Africa

The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and traditions of the more recent past in the context of stylistic groupings; relation to ceremony and to daily life, symbolism and relations to the arts of other cultures. 3 s.h.

1003-0459 Art of the Nineteenth Century

The major movements of the nineteenth century: classicism, romanticism and realism; the salon at midcentury; impressionism; post-impressionism. 3 s.h.

1003-0460 Nineteenth Century American Architecture

Building in the United States during the nineteenth century; social, economic and political forces as determinants of architectural form; interior design and decoration. Works by Latrobe, A. J. Downing, Ithiel Towne, H. H. Richardson and Louis Sullivan emphasized. 3 s.h.

1003-0461 Nineteenth Century American Painting

Painting in the United States during the nineteenth century; portrait, landscape and genre traditions; the Hudson River School, the Genre Painters, the Expatriates and the Dependents; folk and naif paintings. Some knowledge of European painting is desirable. 3 s.h.

1003-0462 Senior Seminar

A seminar in selected artistic problems of historic, social and philosophical nature. Prerequisite: Consent of the instructor. 3 s.h.

1003-0463 Resources and Methods of Research in the Arts

Bibliographic and other scholarly resources; the special problems of scholarship and research. 3 s.h.

1003-0469 The Art of the Twentieth Century

From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson. 3 s.h.

1003-0483 Independent Study in Art History

May be repeated for credit. Prerequisite: Consent of the instructor. 3 s.h.

1003-0485 Ancient Art in Italy: Etruscan and Roman Art

The arts of the Etruscans and Romans in their historical, cultural and religious settings. 3 s.h.

1010-0218, 0219, 0453, 0499 Film Making I, II, III, IV

Basic elements of film production: script, camera, light, sound, editing 3 s.h. ea.
Prerequisites: Taken serially

1010-0332 Film Editing

Principles and techniques of film editing; artistic and esthetic concepts; practice with standard editing equipment. 3 s.h.
Prerequisite: Film Making II and consent of the instructor.

1010-0333 Principles of Cinematography

Exercises in the use of camera equipment and practice in composition, perspective, interpretive lighting and camera movement. 3 s.h.

Prerequisite: Film Making II and consent of the instructor

1010-0400 History of the Cinema as Art

The development of the motion picture as an art form from its earliest stages to the present; the technical, social, economic, cultural and esthetic factors. 3 s.h.

1010-0472 Documentary Film Workshop

Documentary film production; individual or group expression in making a non-fictional film. 3 s.h.

Prerequisite: Film Making II and consent of the instructor.

1010-0473 Narrative Film Workshop

Narrative film production; individual or group expression in making a fictional film. 3 s.h.
Prerequisite: Film Making II and consent of the instructor.

1010-0491, 0492, 0493, 0494 Independent Study in Filmmaking I, II, III, IV

Topics selected with the approval of the instructor. 3 s.h. e
Prerequisites: Taken serially and with instructor's approval

1010-0221, 0222, 0336, 0474 Television as an Art Form I, II, III, IV

Artistic statements are produced on tape and film. 3 s.h. e
Prerequisites: Taken serially and with instructor's approval

1010-0475, 0476 Projects in Television I, II

Problems of contemporary television production; student-faculty critique of the product as an art form. 2 s.h. e

1011-0123, 0124, 0310, 0311 Photography: A Contemporary Art Form I, II, III, IV

Workshop, discussion, lectures, criticisms, demonstrations; essentials of the photographic process: developing, enlarging and exhibiting. The photographer as artist the work of leading contemporary artists. 2 s.h. e

Prerequisite: Taken serially

1011-0425, 0426, 0427, 0428 Independent Study in Photography:**A Contemporary Art Form I, II, III, IV**

Topics for investigation are selected with the approval of the instructor. 3 s.h.
Prerequisites: Taken serially and with the instructor's approval

1011-0484 A History of Photography

The roots of photography, its practitioners and the social and historical circumstances surrounding its creation. 3

1090-0202, 0203, 0301, 0302 Ceramics: Pottery and Sculpture I, II, III, IV

Forming methods, clay composition, glazing and firing, the history of ceramics. 3 s.h. e
Prerequisites: Taken serially.

**1090-0412, 0413, 0414, 0415 Independent Study in Ceramics:
Pottery and Sculpture I, II, III, IV**

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.
 Prerequisites: Taken serially and with the instructor's approval.

1090-0204 Textiles I: Introduction to Textile Design

Woven and non-woven processes and decoration on fabrics; printing, dyeing, stitchery, applique and hooking; the design and use of historic and contemporary fabrics. 2 s.h.

1090-0205 Textiles II: Weaving

The design of fabrics studied through the use of simple and multiple harness tables and loom looms; the relationships of processes, materials and purposes in the development of a design. 2 s.h.

Prerequisite: Textiles I

090-0304 Textiles III: Fabric Decoration

The design of fabrics studied through block printing, silk screen printing, tie-dye, discharge, ikat and batik dyeing.

Prerequisite: Textiles II

090-0305 Textiles IV: Fabric Decoration

The design of fabrics studied through stitchery, applique and rug hooking; creation of non-woven textiles by knitting, knotting and crochet. 2 s.h.

Prerequisite: Textiles III

090-0303 History of Textiles

The evolution of textile equipment and techniques from primitive cultures to the contemporary era. 3 s.h.

090-0361, 0491 Soft Skins I, II

A study of the use of skins and hides to create items of artistic and/or functional value; mastering basic techniques. Emphasis on the design and execution of works in one or all forms of leather and fur. 3 s.h. ea.

Prerequisites: Taken serially.

090-0416, 0417, 0418, 0419 Independent Study in Textiles I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.
 Prerequisites: Taken serially and with instructor's approval

090-0318, 0319, 0435, 0436 Metalwork and Jewelry, I, II, III, IV

Traditional techniques; advanced design concepts and techniques. 2 s.h. ea.
 Prerequisites: Taken serially and with instructor's approval

090-0437, 0438, 0439, 0440 Independent Study in Metalwork and Jewelry I, II, III, IV

Topics are selected for investigation with the approval of the instructor. 3 s.h. ea.
 Prerequisites: Taken serially and with instructor's approval

091-0330 Museum Practice

A study of practices, much of it at museums in the metropolitan area with the participation of their staffs; field trips and, if possible, brief apprenticeships. 3 s.h.

091-0489 Exhibition Workshop

Exhibition techniques and procedures; mounting of shows on campus. 3 s.h.

121-0314, 0315, 0429, 0430 Printmaking I, II, III, IV

Woodcut, screen printing and monoprints. Etching, drypoint and lithography; exploration of new and advanced techniques. 2 s.h. ea.

Prerequisites: Taken serially

121-0353, 0354, 0400, 0401 Relief Printing I, II, III, IV

Woodcut and woodcut engraving and contemporary relief methods such as cellocut, woodcut, hand embossed print, collage, gesso or plaster print, cardboard and glue prints and other improvised relief materials. 2 s.h. ea.

Prerequisites: Taken serially

4921-0355, 0356, 0402, 0403 Intaglio Printing I, II, III, IV

Drypoint, engraving, etching and such major techniques as line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint. 2 s.h. ea.

Prerequisites: Taken serially.

4921-0357, 0358, 0404, 0405 Screen Printing I, II, III, IV

Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques. 2 s.h. ea.

Prerequisites: Taken serially

4921-0359, 0360, 0406, 0407 Lithography I, II, III, IV

Chemicals, tools, materials and techniques of the process.

2 s.h. ea.

Prerequisites: Taken serially

4921-0431, 0432, 0433, 0434 Independent Study in Printmaking I, II, III, IV

Topics for investigation are selected with the approval of the instructor.

3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

4921-0334 Multi-Media Publication

Production of a publication appealing to the auditory, tactile and olfactory senses and using three-dimensional materials as well as conventional two-dimensional pages; the artist's role in performing for mass production. 2 s.h.

4921-0464 The Art and History of the Print

The principal types of prints from their beginnings to today. For both majors and students in other fields. 2-3 s.h.

4921-0470 Independent Study in Multi-Image Media

New and old photographic forms used in conjunction with other art forms or by themselves; work with platinum and gum bichromate, printing and black and white and color transparency materials. Topics for investigation will be selected with the approval of the instructor. 2 s.h.

Prerequisite: Consent of the instructor

4922-0223 Shelter Form as Art I

The concepts and forms of shelter; the ways in which men and animals have housed themselves from primitive times to the present; interior spatial qualities and utilization and the role of adornment, decoration and exterior configurations. Projects include model making. 3 s.

4922-0224 Shelter Form as Art II

Problems of shelter form and space dealt with through workshop; basic building construction. Full-scale models of environmental solutions will be built. Projects include domes, inflated buildings, shelter sections and sensory spaces. 3 s.

Prerequisite: Shelter Form as Art I

4922-0338, 0477 Shelter Form as Art III, IV

Continuation of Shelter Form as Art I and II.

3 s.h.

Prerequisites: Taken serially

4922-0337 Explorations in Contemporary Uses of Art

Art as a functional part of the contemporary community; reactions between people and the city environment; the visual potential of science and technology and its application to problems of visual form in relation to architectural and urban environment. 2 s.

4922-0340 Selected Problems in Urban Cultural Development

Consideration of a specific problem relating to creating a sensuously exciting and stimulating city and community form. 3 s.

4922-0341 History of City Form

Conceptual and esthetic planning of city form from primitive village patterns and ancient towns of India and Egypt to schemes for the future; the significance of squares and

and public spaces; the question of scale and the ways in which forms and spaces are experienced. 3 s.h.

1922-0351, 0352, 0481, 0482 Community Forms as Art I, II, III, IV

A studio in contemporary design: the elements of form and space including natural configurations, building shapes and scale, paths of movement, city furnishings and visuals, recreational areas. Field trips and projects. 3 s.h. ea.

Prerequisite: Taken serially.

1922-0362 Ritual, Event and Performance

Man's universal and long-standing impulse to synthesize the various artistic impulses into a coherent ritual, event or performance, i.e., the total art act which employs the full dynamics of time, space and the group creative process. 3 s.h.

1922-0400 Designing Learning Environments

The role of the "physical environment" as the medium of learning experience. The methods and materials of making places that stimulate, focus and respond to the learning needs of people; design and building projects for school, classroom and community. 3 s.h.

1922-0478 Art in Public Places

A studio concerned with urban areas defined by man's art and used by the public; problems of using art work to achieve the desired ambience. Especially recommended for students of painting, sculpture, theater, music, dance. 3 s.h.

1922-0479 Independent Investigation in Urban Cultural Development

Topics for investigation will be selected with the approval of the instructor. 2-8 s.h. Prerequisite: Consent of the instructor.

1922-0480 Urban Arts Program Planning

Work at an arts institution in a major city observing the institution's program; participants in the course prepare a ten year development plan for an institution emphasizing city and institutional relations. Formal defense of the plan is required. 3 s.h.

1922-0487 Afro-American Art

American art in the United States from colonial times to the present. 3 s.h.

1922-0490 Field Problems in Urban Cultural Development

From a community based classroom, work is done on specific problems in cultural development; emphasis is on the immediate locality and on questions of integration and communication with the residents and the evolution of a relevant community esthetic. 3 s.h. Prerequisite: Departmental approval.

Department of Speech and Theater

Professors: Fox, McElroy, Rockwood

Associate Professors: MacConnell; McDonald; Moll, Chairman; Seidler

Assistant Professors: Bond, Cassady, Eaton, Sobolik, Stoll

Instructors: Bella, Bianchi, Corvino, Figola, Maysilles, Nave, Nicosa, Roberts, Stasheff, Travis

The Department of Speech and Theater provides extensive offerings in all aspects of theater, dance, general speech, broadcasting and media and teacher certification. The department's nationally awarded Major Theater Series, telecasting and dance company/concerts provide for a blend of theory and performance work in all areas. A major in the department consists of a basic core program, departmental electives and completion of one of the following concentrations:

1. broadcasting
2. acting/directing
3. technical theater
4. dance/dance education
5. general speech and theater
6. communication theory and practice
7. teacher certification

Electives, both in and out of the department, are selected by the student in consultation with an advisor in order to adjust programs to individual needs.

All students planning to major in the department must be interviewed prior to declaring the major.

Speech and Theater Major

The minimum 40 s.h. major is distributed as follows:

	semester hours
A. Basic Core Program	
1007-0100 Introduction to the Theatrical Medium	3
1506-0103 Voice and Speech Improvement	3
0603-0280 Elements of the Public Media	3
B. Concentration Requirements	23-28
C. Department Electives	8-12
	REQUIRED TOTAL
	40

Requirements of Concentrations are as follows:

Broadcasting

0603-0101 Introduction to the Broadcasting Medium	3
0603-0240 Writing for the Media	3
0603-0251, 0252 Radio-Television Production I, II	3 ea
0603-0253, 0350 Radio Production II, III	3 ea
Two of the following	
0603-0315 Political Broadcasting	3
0603-0491 International Broadcasting	3
0603-0460 Station Management	3
	REQUIRED TOTAL
	24

Acting-Directing

1007-0122 Acting I	
1008-0141 Modern Dance Technique-Beginning I	
1007-0150 Technical Theater I	
1007-0201 Theater Practicum	
1007-0222 Acting II	
1007-0278 Make-Up	
1007-0330 Play Direction I	
1007-0411 Theater History: Classical to Restoration	
1007-0430 Play Direction II	
	REQUIRED TOTAL
	24

Technical Theater

1007-0122 Acting I	
1007-0150 Technical Theater I	
1007-0201 Theater Practicum	
1007-0210 Introduction to Costuming for the Stage	
1007-0242 Drawing for the Theater	
1007-0340 Theatrical Design	
1007-0411 Theater History: Classical to Restoration	
1007-0455 Fundamentals of Stage Lighting	
	REQUIRED TOTAL
	24

Dance Performance

14 credits of dance technique* The following sequence is suggested:

008-0141, 0142	Modern Dance Technique—Beginning I, II	2 ea.
008-0241, 0242	Modern Dance Technique—Intermediate I, II	2 ea.
008-0351, 0352	Dance Technique—Ballet I, II	2 ea.
Select additional course from		
008-0253	Dance Technique—Jazz	2
008-0354	Dance Technique—Ethnic	2
008-0441, 0442	Modern Dance Technique—Advanced I, II	2 ea.
008-0161	Choreography I	2
008-0210	History of Dance	2
008-0480	Dance Production	2 or 3

REQUIRED TOTAL 21 or 22

Dance Education

2 credits of dance technique* The following sequence is suggested

008-0141, 0142	Modern Dance Technique—Beginning I, II	2 ea.
008-0241	Modern Dance Technique—Intermediate I	2
008-0351	Dance Technique—Ballet I	2
elect two additional courses from		
008-0242	Modern Dance Technique—Intermediate II	2
008-0253	Dance Technique—Jazz	2
008-0352	Dance Technique—Ballet II	2
008-0354	Dance Technique—Ethnic	2
008-0441, 0442	Modern Dance Technique—Advanced I, II	2 ea.
008-0121	Recreational Dance Forms	2
008-0161	Choreography I	2
008-0210	History of Dance	3
008-0325	Methods and Materials for Teaching Dance	2
008-0180	Dance Production	2 or 3

REQUIRED TOTAL 21 or 22

*Students will be placed according to present skill. A student may be required to take Introduction to Dance before beginning his sequence.

Speech and Theater

06-0104	Phonetic Study of Speech Sounds	3
07-0122	Acting I	2
07-0150	Technical Theater I	3
06-0160	Oral Interpretation of Literature	3
06-0234	Fundamentals of Public Speaking	3
07-0330	Play Direction I	3
07-0411	Theater History: Classical to Restoration	3
TOTAL 06-0411	Group Discussion and Leadership	3

REQUIRED TOTAL 23

Communication Theory and Practice

06-0104	Phonetic Study of Speech Sounds	3
06-0160	Oral Interpretation of Literature	3
06-0234	Fundamentals of Public Speaking	3
06-0438	Seminar in Persuasion and Social Control	3
06-0441	Group Discussion and Leadership	3
06-0442	Argumentation and Debate	3
One of the following		
06-0334	Contemporary Public Address	3

66 / Speech and Theater

1506-0414	History of British Public Address	3
1506-0415	History of American Public Address	3

REQUIRED TOTAL 21

Teacher Certification

1506-0104	Phonetic Study of Speech Sounds	3
1007-0122	Acting I	2
1007-0150	Technical Theater I	3
1506-0160	Oral Interpretation of Literature	3
1007-0201	Theater Practicum	2
1506-0234	Fundamentals of Public Speaking	3
1506-0302	Speech Improvement Practicum	3
1007-0330	Play Direction I	3
1007-0411	Theater History: Classical to Restoration	3
1506-0441	Group Discussion and Leadership	3

REQUIRED TOTAL 28

SPEECH AND THEATER MINOR

Students from other departments who plan to pursue minor programs in Speech and Theater are advised to complete the following requirements.

Core Program	
1007-0122	Acting I
1007-0150	Technical Theater I
1007-0201	Theater Practicum
1007-0330	Play Direction I
1506-0160	Oral Interpretation of Literature
1506-0234	Fundamentals of Public Speaking

REQUIRED TOTAL 28

COURSE DESCRIPTIONS

0603-0101 Introduction to the Broadcasting Medium

The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting. 3 s.

0603-0221 Radio Practicum

Practice in radio skills acquired in the classroom and in radio operation. This course may be repeated. 1 s.

Prerequisites: 1506-0100 or 0123 and 0603-0251 or concurrent.

0603-0222 Television Practicum

Closed circuit television production; students participate in a minimum of 7 of the weekly sessions. May be repeated. 1 s.

Prerequisite: concurrent with 0603-0251 or 0252 or 0350.

0603-0240 Writing for the Broadcast Media

Styles and forms involved in "non-dramatic" program writing for the media; preparation of scripts for sports, news, talk and documentary programs. 3 s.

Prerequisite: 0603-0101.

0603-0251 Radio-Television Production I

The tools and techniques of television production applied to news, commercial, interview and demonstrating programs. 3 s.

Prerequisite: 0603-0101.

0603-0252 Television Production II

Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting. 3 s.h.

Prerequisite: 0603-0251.

0603-0253 Radio Production II

The production of radio drama, documentaries and actualities, including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing. 3 s.h.

Prerequisite: 0603-0101, 0603-0251.

0603-0280 Elements of Public Media

Broadcasting theory concentrating on the four controlling elements: the physical nature of the broadcasting media, historical background, economic constraints and the problems of social control. 3 s.h.

0603-0315 Political Television and Radio

An historical-critical introduction to radio and TV as related to political figures, institutions and issues; J. L. Lewis, F.D.R., McCarthy hearings, Nixon-Kennedy debates and political conventions. 3 s.h.

0603-0350 Television Production III

Two television productions written, produced and directed; production and direction of remote broadcasts. 3 s.h.

Prerequisites: 0603-0101, 0251, 0252.

603-0353 Children's Television

Current children's productions and examination of research on their affect/effectiveness; work on class productions designed for children. 3 s.h.

Prerequisite: 0603-0101, 0251.

603-0403 Independent Study**603-1403 Independent Study****603-2403 Independent Study**

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course. 1, 2 or 3 s.h.

603-0460 Station Management

Economic support patterns, evolution of broadcast programming; determining community needs; on-air operations, station promotion and advertising; legal and ethical questions relating to broadcasting. 3 s.h.

Prerequisite: 0603-0101, 0251, 0252.

603-0490 Internship in Broadcasting

Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in active, successful theater, dance, speech or media center or program. Departmental liability and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement

Prerequisite: Departmental approval.

603-0491 International Broadcasting

Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy; Voice of America, Radio Free Europe, missionary radio and group listening and viewing systems. 3 s.h.

Prerequisite: 0603-0101.

007-0100 Introduction to Theatrical Medium

All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media. 3 s.h.

1007-0120 Movement for the Theater

Uninhibited movement for the actor and others in music, dance and mime; exploring and developing functional and expressive movement.

2 s.h.

1007-0122 Acting I

Basic techniques of theatrical communication: involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.

2 s.h.

1007-0150 Technical Theater I

The production concept from the designer's approach through a correlation of related arts to the final production; emphasis on correlation of scenic and lighting designs.

2 s.h.

1007-0201 Theater Practicum

1007-0202 Theater Practicum

On or off stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.h. ea.

1007-0222 Acting II

Extension of the actor's self into characterization; learning to externalize; the psychological elements of a character projected to an audience, using clues in the script to fulfill the author's intent; work on scenes, applying these techniques.

2 s.h.

Prerequisite: 1007-0122 or equivalent.

1007-0242 Drawing for the Theater

Drafting techniques for theatrical designs; basic projective techniques, color harmony and perspective. Preparation for Technical Theater II or Theatrical Design for students without prior experience.

2 s.h.

1007-0250 Technical Theater II

The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.

3 s.h.

Prerequisite: 1007-0150 or consent of instructor.

1007-0270 Introduction to Costuming for the Stage

Physical and aesthetic requirements of the actor, director and designer; the history of clothing and the application to stage costumes; construction projects, lecture and discussion.

3 s.h.

1007-0278 Stage Makeup

Makeup materials and their potential uses; creating corrective and character makeup mustaches and beards for an entire cast; research or creative experience to compile a practical resource file.

2 s.h.

1007-0320 Dance for the Theater

Basic skills in various theater forms; choreographic techniques applied to selected theatrical problems; dance in musical comedy, entr'acte, processions, fight scenes period plays and dream sequences.

2 s.h.

1007-0322 Acting III

Strengthening the actor's controls and extending his boundaries; more challenging roles; period plays and the problem of style. Admission by audition.

3 s.h.

1007-0323 Voice for the Theater

The voice skills necessary for the actor; intensive work directed toward classic and modern styles in stage diction.

3 s.h.

Prerequisites: 1007-0122; 1506-0103, 0160.

1007-0330 Play Direction I

Principles of direction; selection and casting; exercises in composition and movement scenes directed for class criticism; preparation of prompt book.

3 s.h.

Prerequisites: 1007-0122, 0150.

1007-0340 Theatrical Design

Visual design in the theatrical medium; execution of actual designs stressing originality within given stylistic concepts.

3 s.h.

Prerequisite: 1007-0150 or consent of the instructor.

1007-0357 Opera Workshop**1007-0457 Opera Workshop**

A study of the literature and performance problems of opera by means of rehearsal and production of representative excerpts in English. Emphasis on stage movement, diction and stylistic modes of presentation. An interdepartmental offering open to all students held concurrently with 1004-0034, 0035. Non singers must obtain approval from the instructor. Singers and pianists must audition for roles. Juniors and Seniors only.

2 s.h. ea.

1007-0360 Creative Dramatics

Principles and techniques applied in classroom, theater and speech therapy programs; the mental, physical and emotional levels of children; planning and presenting demonstrations with children.

2 s.h.

1007-0370 Costume Construction

Constructing costumes and accessories for the stage; techniques of cutting and sewing clothing; selection of fabrics in terms of weight, texture, color and drape; lecture and workshop.

2 s.h.

1007-0391 Play Writing

The creation of an original playable script suitable for production. The cause to effect play will be investigated as well as newer trends in theater. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theater.

3 s.h.

007-0403 Independent Study**007-1403 Independent Study****007-2403 Independent Study**

Provision for the student to develop projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course. 1, 2 or 3 s.h.

007-0408 Summer Theater Production—Technical**007-0409 Summer Theater Production—Acting**

Practical experience as a member of a professional, semi-professional or educational theater on or off campus. The student works as a technician or as an assistant to the designer or producer. Admission by departmental approval.

7 s.h. ea.

007-1410 Theater History: Restoration to Modern

Plays and playwrights of the periods, theater architecture, scenery, costuming, styles of acting and presentation; oral reports, lectures and demonstrations.

2 s.h.

007-0411 Theater History: Classical to Elizabethan

The development of theater; plays and playwrights, theater architecture, scenery, costuming, acting styles and presentation of each period.

3 s.h.

007-0430 Play Direction II

Advanced play direction including selection of the style of production, period plays and the director's relationship to the cast; each participant produces a play for an audience. Prerequisites: 1007-0222, 0330.

3 s.h.

007-0455 Fundamentals of Stage Lighting

The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium.

3 s.h.

Prerequisites: 1007-0150, 0251 or consent of the instructor.

007-0460 Advanced Creative Dramatics: The Arts in Teaching

Motivating and directing creative abilities in students; assisting other teachers in applying dramatics, music, art and dance in presentation of various subjects.

3 s.h.

Prerequisite: 1007-0360.

1007-0470 History of Costumes

The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design or construction.

2 s.h.

Prerequisite: 1007-0270.

1007-0478 Stage Makeup Seminar

A demonstration laboratory in planning and executing corrective middle-age, old age, stylized and other creations; three-dimensional makeup with crepe hair, latex, putty and dermawax; make-up crew supervision.

3 s.h.

Prerequisite: 1007-0278 and consent of the instructor.

1007-0490 Internship in Theater

Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center or program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

Credit by arrangement

Prerequisite: Departmental approval.

1008-0100 Man: His Body and Its Expression

The physical body; mind-body relationship; the meaning of body structure and movement in relationship to non-verbal communication.

2 s.h.

1008-0141, 0142 Modern Dance Technique—Beginning I, II

Introduction to modern dance; techniques and composition; developmental exercises the relationship to movement and sound and space patterns.

2 s.h. ea

Prerequisite: Taken serially.

1008-0161 Dance Choreography—Beginning

Dance choreography in the traditional idiom with emphasis on the elements of dance composition.

2 s.h.

1008-0210 History of Dance

Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society.

3 s.h.

1008-0230 Creative Dance for Children

Teaching materials; movement exercises and games; simple folk and singing games and percussion activities.

2 s.h.

1008-0233 Dance and Sculpture

The concepts of space, form and energy in relation to sculpture and dance; the cultural conditioning of attitudes about space, form and use of energy.

3 s.h.

1008-0240 Modern Dance

An introduction to the techniques and composition of modern dance; developmental exercises, the relationship of movement and sound patterns, and group improvisation as a means of approaching dance composition.

1 s.h.

1008-0241, 0242 Modern Dance Technique—Intermediate I, II

A wide range of movement techniques: study of dance form styles; style and personality group improvisations as approaches to dance composition.

2 s.h. e

Prerequisite: 1008-0112, Intermediate Dance taken serially.

1008-0253, 0254 Dance Technique—Jazz I, II

An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.

2 s.h. e

Prerequisite: 2 semester hours of modern dance, Jazz Technique taken serially.

1008-0261 Dance Choreography—Intermediate

Dance choreography with emphasis on small group works and solos.

2 s.

Prerequisite: 1008-0161.

1008-0280 Dance Practicum**1008-0281 Dance Practicum**

Practical work in dance production: dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be taken more than once. PASS/FAIL ONLY. $\frac{1}{2}$ s.h. ea.

²Prerequisite: Permission of the instructor.

008-0325 Methods and Materials for Teaching Dance

Theory, methods and materials for the teaching of dance and movement, pre-school through high school; lesson planning, unit planning and curriculum development. 2 s.h.

²Prerequisite: 1008-0142, 0242, 0161.

008-0345 Dance Technique—Ethnic

The distinctive techniques customarily related to specific racial and cultural groups. The groups studies will vary from semester to semester. May be taken more than once.

2 s.h.

008-0351, 0352 Dance Technique—Ballet I, II

An introduction to ballet technique.

2 s.h.

²Prerequisite: 4 semester hours of modern dance or consent of the instructor.

008-0353 Dance Technique—Ballet III

Advanced technique forms with presentations by authorities from various ballet schools.

²Prerequisite: 1008-0352 and permission of instructor.

2 s.h.

008-0403 Independent Study**008-1403 Independent Study****008-2403 Independent Study**

Revision for the student to develop projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course. 1, 2 or 3 s.h.

108-0441, 0442 Modern Dance Technique—Advanced I, II

Advanced dance forms with presentations by authorities from the Graham and Nikolais schools among others.

2 s.h. ea.

²Prerequisites: 6 semester hours of modern dance.

008-0473 Dance Therapy

Dance as therapy; reaching the emotionally disturbed or tense child on a non-verbal level; relaxation through dance experiences.

2 s.h.

²Prerequisite: Consent of the instructor.

108-0480 Dance Production

Responsibilities of the dancer, choreographer, artistic director, musician and technician in dance production; practical group experience.

2-3 s.h.

²Prerequisites: 1008-0161 and 6 semester hours of modern dance.

108-0485 Dance Repertoire

Dancing, choreographing, or providing technical assistance for a repertory company activity. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved. 3 to 7 s.h.

²Prerequisite: By auditions.

116-0100 Fundamentals of Speech

Speech activities including oral interpretation and public speaking; emphasis on development of clear, pleasing diction; additional practice in the speech laboratory. Satisfies the speech requirement for teacher certification or communication requirements. 3 s.h.

116-0103 Voice and Speech Improvement

Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For Speech and Theater majors and minors; others by consent of the instructor.

3 s.h.

1506-0104 Phonetic Study of Speech Sounds

Intensive study of the manner and place of articulation heard in American English, use of International Phonetic Alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.

3 s.h.

1506-0105. Voice and Speech Improvement for Students with Foreign Speech Patterns

For students requiring intensive training in English as a second language; work on voice and speech problems; comparative phonetic analysis of native languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. Satisfies teacher certification or communication requirements.

3 s.h.

1506-0160 Oral Interpretation of Literature

Classroom performances followed by informal critiques and the development of a repertory. Satisfies teacher certification or communication requirements.

3 s.h.

1506-0234 Fundamentals of Public Speaking

Preparing and delivering effective, informative, persuasive and entertaining speeches; addressing the class, entering into formal critiques and moderating one program. Satisfies teacher certification or communication requirements.

3 s.h.

1506-0302 Practicum in Speech Improvement

Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self-motivating materials for junior high and high school; for all Speech and Theater majors planning to teach. Three class hours plus one hour for observation and practice.

3 s.h.

Prerequisites: 1506-0103, 0104, 0160 and 0234.

1506-0331 Public Speaking: A Rhetorical Approach

A study of modern speech practice through classical rhetorical theory; primary sources and definitive contemporary works; analytical study of representative speeches; some opportunity to apply theory.

3 s.h.

1506-0334 Contemporary Public Address

A study of prominent speakers and their influence on current issues and events.

3 s.h.

1506-0360 Advanced Oral Interpretation of Literature

The study through performance of selected styles, genres and periods of literature specialized skills of oral interpretation.

3 s.h.

Prerequisite: 1506-0160.

1506-0402 Advanced Practicum in Speech Improvement

More intensive, supervised practice in the improvement of voice and speech patterns in the College Speech Laboratory and with foreign student practice groups; students spend two hours in lab and one hour in seminar each week.

2 s.h.

Prerequisite: 1506-0302 and consent of the instructor.

1506-0403 Independent Study

1506-1403 Independent Study

1506-2403 Independent Study

Projects pursuing individual needs. The proposals must be submitted for department approval prior to registration for the course.

1, 2 or 3 s.

1506-0407 Methods in the Teaching of Speech and Dramatics

Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields. For Speech and Theater majors; others by consent of the instructor.

3 s.

1506-0414 History of British Public Address

Survey beginning with the Cromwellian period and continuing through World War II: times, issues and speakers.

3 s.

1506-0415 History of American Public Address

Leading speakers from Colonial times to the present emphasizing the speaker's role in the course of American history. 3 s.h.

1506-0435 Speech Arts Activity

Credit is given for supervised speech arts activity. Consent of department chairman required. Credit by arrangement

1506-0438 Seminar in Persuasion and Social Control

Uses and applications of persuasion in various fields of social activity; mass media in education, business, religion and politics. 3 s.h.

Prerequisite: 1506-0234.

1506-0441 Group Discussion and Leadership

Principles of democratic discussion and methods of guiding and participating in informal group discussion and public discussion; the techniques and uses of parliamentary procedure. 3 s.h.

1506-0442 Argumentation and Debate

Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence and oral techniques; organization and coaching of school forensic programs; practice and experience in argumentation and debate on current, significant issues. 3 s.h.

1506-0461 Choral Speaking

Interpreting literature through a speaking choir; materials suitable for group reading; the application of this form at various grade levels; preparation of selections suited to the student's interest. 2 s.h.

School of Humanities

Wolfgang B. Fleischmann, Ph.D., Dean

The School of Humanities includes the Departments of Classics, English, French, German and Russian, Linguistics, Spanish and Italian, and Philosophy and Religion. It was formally established by Board of Trustees action in January of 1970 and ratified its Constitution which allows for student-faculty governance at all levels, in September of that year.

Three aims are central to the School's concern: to provide concentrations in the various disciplines through specialized training, to accommodate students' interdisciplinary interest, and to offer the College as a whole those learning opportunities associated with humanistic studies.

Toward the fulfillment of these aims, curricular revision is in progress. For the potential specialist or teacher, major programs in incorporated departments will continue and have been augmented, as is the case for majors in General Humanities, Italian language and literature, and linguistics. In most disciplinary majors, course options have been considerably broadened (see individual departmental entries, below), for concentrants.

Every Department in the School is concerned with presenting its discipline in exciting ways for purposes of general education. New courses of foreign and Occidental literatures in translation, the planning—together with the Schools of Educational and Community Services and of Social and Behavioral Sciences—of a major program in Latin American Studies, and literature courses in the Afro-Asian field are cases in point.

The School occupies Partridge Hall, a modern classroom and faculty office facility. The building permits the Dean and a faculty of over 100 to be housed in close proximity to student and faculty lounges and classrooms. Both the **Montclarion** and **Quarterly** are advised by School of Humanities faculty.

General Education Requirements for the School of Humanities Common Core:

Identical to those of the College as a whole regardless of the degree program pursued. See page 26

School-Planned Core:

Identical for all students of the School, regardless of the degree program pursued. From at least 4 of the areas below, select no less than 3 nor more than 9 semester hours (no more than 12 semester hours in the School of Humanities):

Language and Linguistics	Behavioral Sciences
Literature	History
Mathematics	Philosophy-Religion
Life Science	Art*
Physical Sciences	Music*
Social Sciences	

*A course may not be used as both core requirement and elective.

Department of Classics

Professor: Kelly, Chairman

Assistant Professor: Renner

The Department of Classics offers the Liberal Arts student a major which includes Greek and Latin language and literature, a major in Latin and one in the teaching of Latin. All major programs presuppose work in sufficient breadth and depth to permit an qualify students to pursue graduate work in Classics.

Additionally, departmental courses taught in English under the headings Humanities and Comparative Literature strengthen the program of the Liberal Arts student and may fulfill certain of the General Education Requirements.

Classics Major

I. Requirements

	semester hours
1110-0101 Beginning Greek I	3
1110-0112 Beginning Greek II	3
Select one course from each group:	
a) 1110-0351 Attic Orators	3
1110-0361 Historians	3
1110-0451 Philosophers	3
b) 1110-0262 Epic Poetry	3
1110-0352 Tragedy	3
1109-0410 Advanced Latin Grammar	3
1109-0445 History of Latin	3
Select one course from each of the following groups:	
a) 1109-0151 Cicero and Ancient Philosophy	3
1109-0251 Roman Letter Writing	3
1109-0261 Roman Biography	3
1109-0351 Roman Historians	3
1109-0361 Caesar: End of the Republic	3
b) 1109-0152 The Epic and Vergil	3
1109-0154 Ovid	3
1109-0252 Roman Drama	3
1109-0254 Lyric Poetry	3
1109-0352 Roman Satire	3
1109-0354 Elegy	3
1109-0454 Lucretius and Ancient Science	3
c) 1109-0451 Latin of the Middle Ages	3
1109-0452 Augustine	3
I. Electives*: Select at least two of the following courses	
1110-0310 Greek Composition	3
1110-0261 New Testament and Related Greek	3
1110-0454 Hesiod	3
1109-0141 Latin Review Grammar	2
1109-0209 Oral Latin	2
1109-0310 Latin Composition	2
Alternatives listed in a,b,c	
1109-0470 Senior Seminar	3
1109-0478 Advanced Readings	2
4903-0181 Introduction to Classical Archaeology	3
4903-0182 Classical Etymology	3
4903-0183 Classics in the Cultural Media	3
4903-0281 Greek Civilization	3
4903-0282 Roman Civilization	3
4903-0283 Greek and Roman Oratory	3
4903-0285 Classical Mythology	3
4903-0375 Study Abroad (credit by evaluation)	3
4903-0381 Africa in Classical Antiquity	3
4903-0382 Greco-Roman Colonization	3
4903-0385 Greek Tragedy	3
4903-0470 Seminar in Classics	3
1503-0273 Epic Poetry in Classical Antiquity	3
1503-0370 Seminar in Classics	3
1503-0395 Ancient Historians and Historiography	3

REQUIRED TOTAL 33

Latin Major

I.	Requirements	
1109-0410	Advanced Latin Grammar	3
1109-0445	History of Latin	3
1109-0151	Cicero and Ancient Philosophy	3
1109-0152	The Epic and Vergil	3
II.	Electives	
a)	one course selected from 1109-0121, 0251, 0351, 0361	3
b)	one course selected from: 1109-0132, 0154, 0252, 0254, 0352, 0354, 0454	3
c)	one course selected from: 1109-0451, 0452, 0470	3
d)	three courses from the following: Latin Language: 1109-0141, 0209, 0310	2
	Latin Literature: Alternates from a, b, c above	3
	Humanities: Classical (any course 4903)	3
	Comparative Literature: Classical (any course 1503)	3
III.	Recommendation	
	One year of Greek	6
		REQUIRED TOTAL
		33

Latin Major—Teacher Education

I.	Requirements	
1109-0410	Advanced Latin Grammar	3
1109-0445	History of Latin	3
1109-0151	Cicero and Ancient Philosophy	3
1109-0152	The Epic and Vergil	3
II.	Electives: Latin Literature	12

Professional Courses

1109-0419	Methods of Teaching Latin	3
	Three courses from the following:	
a)	Latin Language: 1109-0141, 0209, 0310	2
b)	Latin Literature	3
c)	Humanities: Classical (any course 4903)	3
d)	Comparative Literature: Classical (any course 1503)	3
	1109-0319 Materials for Teaching Latin	2
III.	Recommendation:	
	One year of Greek	6
		REQUIRED TOTAL
		33

Minor Programs

Students may minor in Classics (all work done in translation), in Latin, or in Greek. A total of 18 hours of course work will be taken in the Department. The specific program will be worked out in consultation with the Department Chairman.

SECOND TEACHING FIELD IN LATIN

Students interested in a second teaching field in Latin must take a minimum of 24 semester hours with at least 9 hours from the Latin Language course offerings and 15 hours from the Latin Literature course offerings.

SECOND TEACHING FIELD IN CLASSICAL HUMANITIES

Greek Literature	6
Latin Literature	6
Humanities: Classical 4903	6
Electives (by advisement)	6

COURSE DESCRIPTIONS

1110-0101, 0112 Beginning Greek

The grammatical fundamentals of Ancient Classical Greek, to prepare the student to read Greek literature. 3 s.h. ea.

1110-0261 New Testament

Selected readings in the Greek **koine** from the Bible. 3 s.h.

1110-0262 Greek Epic Poetry

Selected readings from the **Iliad** and/or **Odyssey**. Supplementary reading in translation. Study of the "Homeric question." 3 s.h.

1110-0310 Greek Composition

The finer points of style and grammar and an ability to handle the Greek idiom, readings of selected Greek literary and non-literary models. 3 s.h.

Prerequisite: Permission of the instructor.

1110-0351 Attic Orators

Greek history and thought from the Attic Orators Antiphon, Andocides, Lysias, Isocrates, Isaeus. Supplemental readings in the original or translation from Demosthenes. 3 s.h.

1110-0352 Greek Tragedy

The origin and development of this most important of all Greek genres through original readings from the major representatives of this form: Aeschylus (**Persae** or **Prometheus Vinctus**), Sophocles (**Antigone**, **Ajax** or **Philoctetes**), Euripides (**Alcestis**, Medea, **Bacchae** or **Hippolytos**.) Readings in literary translations. Attention to influences upon other literatures. 3 s.h.

110-0361 Greek Historians

Greek history and historiography through intensive but selected readings from the two major historians Herodotus and Thucydides. Supplementary readings from Xenophon's **Anabasis** or **Hellenica**. Supplementary readings in translation. 3 s.h.

110-0451 Greek Philosophers

The development of Greek philosophy from rapid readings in translation and original of pre-Socratics. Emphasis on Platonic dialogues (**Apology**, **Phaedo**, **Republic**) and Aristotle's essays (**Poetics**, et al.) Supplementary readings in translation. 3 s.h.

110-0452 Greek Lyric Poets

Readings from the corpus of lyric poets; development in theme, technique, meter; influences on later literatures. 3 s.h.

110-0454 Hesiod

Readings from the **Theogony** and the **Works and Days**. Study of the archaic period of Greek civilization. The structure and meaning of the Hesiodic literature. 3 s.h.

109-0101 and 0112 Beginning Latin

The structure of the Latin language through observation of the pattern as it appears in **sententiae** and passages of connected reading material. Acquisition of basic language skills through the patterns of the language. 3 s.h. ea.

109-0121 and 0132 Readings in Latin Prose and Poetry

Latin selections arranged by theme to present the development of Roman history and civilization from Aeneas to Augustus; opportunity to observe the structure of the Latin language in passages of connected reading. 3 s.h. ea.

1109-0141 Latin Grammar

Structural presentation and review of the patterns of the Latin language with emphasis upon practice. 2 s.h.

1109-0151 Cicero and Ancient Philosophy

Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world. 3 s.h.

1109-0152 The Epic and Vergil

Depth study of the **Aeneid**, Books I-VI. Readings from VII-XII.

3 s.h.

1109-0154 Ovid

The **Metamorphoses** as a primary source of information about Roman religion, ritual and myth; selections from Ovid's other works in original and translation; observation of his role as a model in later literature. 3 s.h.

1109-0209 Oral Latin

Pronunciation, phrasing, reading aloud; intonation patterns in questions-answers, in conversations extracted from the authors; rhetorical devices in orations, of rhythm and meter in poetry; reading aloud as technique for comprehension; use of records and tapes. 2 s.h.

1109-0251 Roman Letter Writing

The public figure of the Late Republic and the private citizen of the Silver Age seen through the letters of Cicero and Pliny. 3 s.h.

1109-0252 Roman Drama

Reading of comedies of Plautus and Terence with attention to Latin language and authors' influence on the development of the drama. 3 s.h.

1109-0254 Roman Lyric Poetry

Selections from the lyrics of Catullus and Horace, with particular attention to the differences in theme, content, metrics. 3 s.

1109-0261 Roman Biography

The biography as a **genre**; selected passages from Sallust, Tacitus, Suetonius; contrasting these works with autobiographical evidence from the letters and excerpts of other Latin authors. 3 s.

1109-0310 Latin Composition

Development of Latinity in writing; practice in imitation of word choice, word order and style of Latin authors; translation of contemporary material into period Latin. 2 s.

1109-0319 Materials for Teaching Latin

Examination, evaluation and collection of audio-visual materials; a preparation of bibliographies, library orders, bulletin boards; guidelines for field trips, projects and Latin Club. 2 s.

1109-0351 Roman Historians

The history of Rome through the writings of Livy and Tacitus. 3 s.

1109-0352 Roman Satire

Reading of Horace and Juvenal and discussion of the satire as a genre of reporting. 3 s.

1109-0354 The Elegy

The Roman elegiac poets, Tibullus and Propertius; the elegy as a form of poetic expression. Comparisons of the elegy in Latin and English literature. 3 s.

1109-0361 Caesar: End of the Republic

Reading from **De Bello Gallico** and **De Bello Civilis** with attention to Caesar the General, the Statesman, the Man of Letters; the turbulence attending the end of the Republic. 3 s.

1109-0375 Study Abroad

Approved study-travel program at selected universities, classical sites, museums. (Also listed as 4903-0375.) Credit by evaluation

1109-0410 Advanced Latin Grammar

Descriptive analysis of Latin grammar based on generative-transformational linguistics; examples from the classical authors; practice in writing original Latin prose. 3 s.h.

1109-0419 Methods of Teaching Latin

History of methodology, new approaches and techniques, evaluation of texts, construction of lesson plans, reviews, tests, the development of a Latin curriculum. 3 s.h.

1109-0445 History of Latin

Latin and its position in the Indo-European family; the evolution from the spoken to the literary, to the Vulgar, to the Christian; characteristics of the periods exemplified in the language; transitional features in the phonology, morphology, and syntax. 3 s.h.

1109-0451 Latin of the Middle Ages

The transition of the language from Classical to Romance; literature of church and state in the evolution of modern western ideas. 3 s.h.

1109-0452 Augustine

Selection from the **Confessions**, the **City of God** and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire. 3 s.h.

1109-0454 Lucretius and Ancient Science

Reading of **De Rerum Natura** with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas. 3 s.h.

1109-0470 Senior Seminar

Independent study pursued on a theme in depth by contractual arrangement. 3 s.h.

Prerequisite: Permission of the instructor.

1109-0478 Advanced Latin Readings

Reading selections, in the original, representing an author, a genre, a period, or a theme complementing previous course offerings; critical reading a prime function. 2 s.h.

Prerequisite: Permission of the instructor.

Humanities Elective Courses

4903-0181 Introduction to Classical Archaeology (in English)

The science of evaluating a culture through observation and analysis of sites and monuments. Problems of dating, types of materials, function of buildings and decorations. Illustrated lectures, readings and discussion in addition to museum field trip. 3 s.h.

1903-0182 Classical Etymology (in English)

Greek and Latin roots, prefixes, suffixes and principles of word formation give the student access to meaning and usage associated with his subject matter interest. Practical vocabulary exercises. 3 s.h.

1903-0183 Classics in the Cultural Media (in English)

Classical Motif in today's world. Field trips to Newark Museum (Roman Glass); Metropolitan Museum, New York (Greek vases); University Museum, Philadelphia (Etruscan); The Cloisters, New York (Medieval); American Numismatic Society, New York. A film, play, symphony, opera or ballet (as available). Greek Revival and Roman architectural borrowings in public and private buildings. 3 s.h.

4903-0281 Greek Civilization (in English)

Greece's contribution to Western Civilization studied through history, literature, architecture, art and sculpture.

3 s.h.

4903-0282 Roman Civilization (in English)

Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own; the planting of Roman culture and civilization along the route of the Roman army; monuments and relics as testimony to the Roman penetration and influence.

3 s.h.

4903-0283 Greek and Roman Oratory (in English)

Oratory as a political tool; training of the orator; analysis of selected orations of Demosthenes and Cicero; influence of ancient oratory on public speaking; debate and argumentation.

3 s.h.

4903-0285 Classical Mythology (in English)

The classical myths repeated in the literature and other media of the Western World. The origins of the myths studied through readings and art; interpretations of their meaning.

3 s.h.

4903-0375 Study Abroad (in English)

Approved study-travel program at selected universities, classical sites, museums (also listed as 1109-0375)

Credit by evaluation

4903-0381 Africa In Classical Antiquity (in English)

Africa in the Greco-Roman world: economic, intellectual, political and artistic contributions; Blacks and ancient institutions: army, theater, sport, government, slavery; ancient attitudes toward race; famous Africans of antiquity.

3 s.h.

4903-0382 Greco-Roman Colonization (in English)

A sequel to Greek Civilization and Roman Civilization with specialization in one geographic area: Magna Graecia, Greco-Roman Spain, Gaul, Turkey, the Balkans, Roman Britain, or Germany. Mini-courses elected singly or in combination.

1 s.h. per unit

4903-0385 Greek Tragedy (in English)

Selected plays of Aeschylus, Sophocles and Euripides read in English translation; origins of Greek drama, religion and myth in tragedy, the tragic hero, stage production influence on modern literature.

3 s.

4903-0470 Seminar in Classical Humanities (in English)

Topic to be selected according to interest and leadership potential and developed by an interdisciplinary approach.

3 s.

Comparative Literature Courses

Courses in literature dealing with international literary traditions and trends a offered by the following Departments in the School of Humanities: Classics, English, French, German/Russian, Linguistics and Spanish/Italian. They are listed as offered by these Departments, carrying a 1503 prefix designation. All 1503 courses are offered in the English language.

1503-0273 Epic Poetry in Classical Antiquity (in English)

The *Iliad*, *Odyssey* and *Aeneid* in English translation; ancient and modern literary criticism of Homer and Vergil; oral vs. literary epic; history, folklore and saga in the ancient epic; basic epic themes (man as hero, fate, man and the gods, etc.); Homeric and Virgilian influence on subsequent literature.

3 s.

1503-0370 Seminar in Classical Literature (in English)

Theme selected according to interest and leadership potential and developed by an interdisciplinary approach.

3 s.

1503-0395 Ancient Historians and Historiography (in English)

Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis; assessing authenticity and objectivity while discussing the art of historiography.

3 s.h.

Department of English

Professors: Radner, Chairman; Dickson, Fleischmann, Hanson, Pettegrove, Petty

Associate Professors: Barrett, Dell, Healey, Jacobs (B), McGee, Meranze, Mickelson, Miller, Paul, Prosky, Rich, Roberts, Schwegel, Spencer

Assistant Professors: Alper, Anand, Becker, Duggan, Furr, Gordon, Grieco, Khanna, Nash, Price, Rudy, Steuhler

Instructors: Benediktsson, Brewton, Bronson, Harrington, Jacobs (R), Johnson, Liebler, Lovasco, Schwartz, Slocum, Stone

Students wishing to major in English must accumulate 33 semester hours of credit in this field, distributed as follows: 9 of prescribed courses; 12 of required courses equally distributed in American and English Literature listed below; 12 of free English electives. Students building a minor in English without teacher certification must accumulate 21 semester hours: 6 of the prescribed courses, 12 of the required courses, and 3 of free English electives.

English Major

I. Prescribed Courses		semester hours
An introductory genre course: 1501-0160, 0162 or 0163		3
Myth and Literature 1501-0260		3
The English Language or a course in the history of grammar or psychology of language (see 1505 offerings in both the English and Linguistics Departments)		3
I. Required Courses:		
American Literature: two of the following		
1501-0225 Early American Literature		3
1501-0226 Literature of the American Renaissance		3
1501-0334 American Drama		3
1501-0336 American Literary Realism		3
1501-0337 Modern American Fiction		3
1501-0338 Contemporary American Fiction		3
English Literature: two of the following		
1501-0245 Middle English Lit. or 1501-0244 Chaucer or 1501-0401 Old English Language and Literature		3
1501-0246 Renaissance Lit. or 1501-0353 Shakespeare's Comedies or 1501-0354 Shakespeare's Tragedies or 1501-0343 Milton		3
1501-0247 18th Century English Poetry and Prose		3
1501-0346 19th Century English Romantic Literature		3
1501-0347 Victorian Prose and Poetry		3
Other English Courses are electives		12

REQUIRED TOTAL 33

The student may use his electives to develop a special interest, or he may distribute the 12 semester hours in whatever manner he chooses among departmental areas of specialization in writing; in American, English or comparative literature; by periods; by genre. Advisors will help the student determine a good program.

EACHER EDUCATION

Students desiring teacher certification in English must gain admission to the School Education by meeting the requirements of that School and of the English Depart-

ment. Prerequisites for admission to the Teacher Preparation Program in English and current requirements in the discipline for both a first and a second teaching field certificate are posted in the English Department—4th floor, Partridge Hall.

COURSE DESCRIPTIONS

1501-0100 Writing Workshop

Tutorial instruction in basic writing and research skills, with meetings as often as required and over as long a period of time as may be necessary to bring a student's writing to the college communications requirement standard. 3 s.h.

1507-0103 Special Communication Skills

New motivational and audiovisual techniques in a program designed to help those with writing problems. Equivalent in aim to 1507-0105. 3 s.h.

1507-0105 Composition and Literature

Instruction in basic writing skills and research, frequent writing assignments and a research paper. Satisfies the communications requirement in writing. 3 s.h.

1501-0106 Introduction to Literature

Reading and criticizing all forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. 3 s.h.

1507-0114 Practical Journalism I

Basic procedures and practices in a professional field; constructive use of and respect for the printed word; writing news and correcting copy for the **Montclarion**. 3 s.h.

1501-0139 Literature of Social Protest in America since 1920

Novels, dramas and poetry of protest against social injustices in the United States since World War I; Sinclair Lewis, John Steinbeck, John Dos Passos, Carl Sandburg, Eugene O'Neill and James Baldwin. 3 s.h.

1501-0160 Art of Poetry

Problems of defining and evaluating poetry; representative discussion of selections; illustrative of critical points; characteristics of different types of poetry. 3 s.h.

1501-0161 Short Story

Short stories of nineteenth and twentieth centuries as an evolving form with human and literary values. 3 s.h.

1501-0162 The Art of Fiction

The form and technique of representative works of fiction; close reading and discussion of the short story, the novella and the novel. 3 s.h.

1501-0163 The Art of Drama

Ways in which man expresses himself and his community through drama as a blend of word and gesture. 3 s.h.

1503-0172 Western World Literature

Selected literary masterpieces reflecting Western culture; universal themes, motifs, concepts, and the artistic forms in which they have been shaped. 3 s.h.

1503-0173 Eastern World Literature

Classics of Persia, India, China and Japan; attention given to modern writings. 3 s.h.

4903-0196 The Film

The particular characteristics of the American and European film as an art form; contributions of the screen writer, director, cameraman and actor; development of a critical vocabulary. 3 s.h.

1507-0198 Creative Writing

Recognition and development of one's best form and style through writing and criticism by professor and class. 3 s.h.

1507-0210 Creative Writing: Drama

The nature of dramatic dialogue; the problem of form; the part played by the script in creating a one-act play. 3 s.h.

Prerequisite: 1507-0198

1507-0212 Creative Writing: Poetry

Techniques and fundamentals of writing poetry discussed and applied to student manuscripts. 3 s.h.

Prerequisite: 1507-0198

1507-0214 Practical Journalism II

Continuation of fundamentals of 1507-0114 Practical Journalism, plus a focus on feature and editorial writing. 3 s.h.

Prerequisite: a basic course in journalism or comparable experience.

1507-0215 Creative Writing: Prose

Fundamentals and techniques of writing prose, fiction, essays and autobiography applied to extensive individual projects. 3 s.h.

Prerequisite: 1507-0198

1501-0216 History of Journalism in America

The tradition examined through three stages: Colonial journalism, Pre-Civil War distinctively American journalism, and modern journalism itself and as affected by the development of mass media. 3 s.h.

1501-0225 Early American Literature

American Literature from the Puritans to Cooper, tracing the development of Colonial and Revolutionary thought and the beginning of America's cultural independence. 3 s.h.

1501-0226 Literature of the American Renaissance

Moby Dick and *The Scarlet Letter* included among the major works of masters of the American Romantic period: Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe. 3 s.h.

1503-0237 Science Fiction

Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings. 3 s.h.

1501-0238 Afro-American Writers

Selected works of Afro-American writers, from Phillis Wheatley through Richard Wright: the aesthetic value; the political and social background, within the context of American literary history. 3 s.h.

501-0239 Critical Trends in Twentieth Century America

Literary criticism and the history of ideas from 1900. 2 or 3 s.h.

501-0244 Chaucer

Troilus and Criseyde, *The Canterbury Tales* and some of the minor poems in Middle English. No previous language training required. 3 s.h.

501-0245 Middle English Literature

The historical and social context and the relation to continental medieval traditions examined in the literature of England from 1100-1400, with minor attention to Chaucer. Where appropriate, works read in Middle English. 3 s.h.

501-0246 Renaissance Literature

Major non-dramatic writers of Elizabethan and early seventeenth century England whose individual contributions in poetry and prose reflect the literary and philosophical reoccupations of the period: Sidney, Llyly, Nashe, Greene, Donne and Browne 3 s.h.

501-0247 Eighteenth Century English Poetry and Prose

The literary climate of the century that stabilized British culture and laid the foundations of literary forms and themes as well as the political and cultural ideals of America. 3 s.h.

1501-0254 English Drama: Beginnings to 1642

From medieval origins to the closing of the theatre: miracles, mysteries, moralities through the development of Tudor and Stuart Theatre—exclusive of Shakespeare. 3 s.h.

1501-0260 Myth and Literature

An understanding of the myth making process in literature developed by a comparative study of the origins of myths and of the major motifs and archetypes in selected primitive and classical myths and literary works of myth. 3 s.h.

1503-0266 African Myth and Literature

Selected Sub-Saharan African myths and literary works against a background of the major theories of myth and literary origins; the universality and cultural uniqueness of the artistic form and major motifs. 3 s.h.

1503-0272 Literary Modernism

A comparative study of major artistic movements as reflected in the literature of the twentieth century. 3 s.h.

1503-0274 Modern Drama: Ibsen to O'Neill

Representative plays studied for individual merit and for unique contributions to modern drama; critical insights and historical perspective as keys to understanding and appreciation. 3 s.h.

1505-0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians; the Germanic strains and morphology of Old and Middle English 3 s.h.

1501-0294 Women Poets

Selected poets from Sappho through Emily Dickinson to Sylvia Plath. Readings in the psychology and sociology of women. 3 s.h.

4903-0296 The Contemporary Film

American and foreign films of outstanding merit; plot, theme, aesthetic standards, social attitudes and the personal statements of such directors as Bergman, Fellini, Antonioni. 3 s.h.

4903-0297 Literature and Sociology

Literary works as mirror and criticism of society, through sociologists from Comte to Reisman; individual vs. communal values, class conflict, conformity and protest, and the relationship of literary type and social structure. 3 s.h.

Prerequisite: 6 semester hours in English.

4903-0298 Literature and Psychology

The major modern depth psychologies—Freudian, Jungian, Adlerian; literary portrayals of human character and action in world literature; the quest for selfhood; the alienated individual; love and marriage; parents and children. 3 s.h.

Prerequisite: 6 semester hours in English or psychology.

(Can be taken for psychology credit)

4903-0299 Literature and Art in Western Culture

An examination of the relation between art and literature with its common function: re-creation of experience. 2 or 3 s.

1507-0313 Workshop Journalism I

Technical knowledge of 1507-0114 and 0214 in routine use. Class and Montclarion office run by students, class set up as a news office, with blocked time available for ample time in the office. 3 s.

Prerequisite: a course in journalism and/or the consent of the instructor.

1507-0314 Workshop Journalism II

Further development of the work begun in Workshop Journalism I. 3 s.

Prerequisite: a minimum of two or more courses in journalism and/or the consent of the instructor.

1507-0315 Magazine Journalism

Researching, writing and placing feature stories in periodicals.

3 s.h.

Prerequisite: a course in journalism or the consent of the instructor.

1501-0324 American Poetry: Native Tradition

Major poets in the American tradition: Emerson, Melville, Whitman, Dickinson, Whittier, J. R. Lowell, Frost, W. C. Williams.

3 s.h.

1501-0325 American Poetry: Tradition and Innovation

The lines of inheritance and innovations in modern poetry: Pound, H. Crane, Eliot, Stevens, Cummings, R. Lowell and selected contemporary poets.

3 s.h.

1501-0334 American Drama

Drama by American authors chosen for excellence or representation of a significant era or movement in the theater.

3 s.h.

1501-0336 American Literary Realism

Developments in realism; the works of James, Howells, Twain, S. Crane, Norris and Dreiser.

3 s.h.

1501-0337 Modern American Fiction

The artistic achievement and the place in literary history of S. Anderson, Hemingway, Faulkner, Dos Passos, Fitzgerald and Steinbeck.

3 s.h.

501-0338 Contemporary American Fiction

Developments in American fiction from World War II to the present. Bellow, Ellison, Malamud, Mailer, Wright, Updike, O'Connor and Barth.

3 s.h.

501-0343 Milton

Milton's juvenilia and prose selections leading to one of his major works.

3 s.h.

501-0346 Nineteenth Century English Romantic Literature

The Romantic revolt of poets—Wordsworth, Coleridge, Shelley, Byron and Keats—and essayists—Hazlitt, DeQuincey and Lamb.

3 s.h.

501-0347 Victorian Prose and Poetry

Mid- and late-nineteenth-century responses to the emergence of modern British society: the prose writing of Carlyle, J. S. Mill, Ruskin, T. H. Huxley, Newman, Arnold and Morris; the poetry of Tennyson, Browning and Arnold.

3 s.h.

501-0353 Shakespeare: Comedies and Histories

Shakespeare's vision of man as actor in the comic mode and roles of leadership; representative plays, their sources, typical devices and generic characteristics; textual problems; attention to context of Elizabethan society and the staging of the plays.

3 s.h.

501-0354 Shakespeare: Tragedies and Romances

The tragic mode and the special vision of the later Romances.

3 s.h.

501-0356 English Novel to 1900

Form and theme of the English novel through eighteenth and nineteenth centuries, judged by literary, social, moral and cultural criteria.

3 s.h.

501-0364 Contemporary Poetry: Auden to Present

Distinctive poetry movements since the imagists; study in depth of representative poets; critical appreciation through comparison of diverse styles, themes and poetic theories.

2 or 3 s.h.

501-0370, 1 English Independent Study

Open to any junior or senior who has developed a special interest, or who wishes to develop his scholarly interest, or to investigate some future course leading to graduate vocational study. Ability to conduct independent study determined by responsibility and genuineness of interest.

3 s.h. ea.

Prerequisite: Prior approval of department.

1503-0278 Speculative Fiction: Fantasy

The impossible and improbable in the imaginative fiction of non-worlds—exclusive of technological science fiction.

3 s.h.

1503-0372 Major Women Prose Writers

Significant relationships among the writings of not more than five women selected from Mme. de Staél, through Charlotte Brontë and Virginia Woolf, to Mary McCarthy and Susan Sontag—each work reflective of its particular era.

3 s.h.

1503-0374 Contemporary British and European Drama

Selected plays representing the vast diversity of the themes, values and dramatic techniques of selected dramatists of our times.

3 s.h.

1503-0376 Modern European Novel

Insight into the trends beginning about 1910 as they influenced the creative expression of such novelists as Gide, Hesse, Kafka, Woolf and others.

3 s.h.

1503-0381 Comic and Satiric Modes

A comparative study of the nature of devices such as irony, exemplified historically in the different genres.

3 s.h.

1505-0384 The Grammars of English

Review of traditional English grammar; introduction to new theories of grammar; the place of grammar in the teaching of rhetoric and composition.

3 s.h.

1505-0385 Verbal and Non-Verbal Language

Effects of language on human thinking, behavior and personality; recent studies of problems of verbal communications.

3 s.h.

1501-0393 The Political Novel in the U.S. Since 1900

Social Darwinism, Socialism, Communism, World War I, the Great Depression, World War II reflected in American novels having political themes as their dominant characteristic.

3 s.h.

Prerequisite: Survey course in one of the following: American Literature, American History, Sociology, Political Science.

4903-0397 Biography

Sources of biography in letters, diaries, memoirs; biographies from medieval England to contemporary Pulitzer Prize winners; changing concepts of form; revelations of the nature, character and varied destinies of personality.

3 s.h.

4903-0399 Development of Black Thought

An historical and critical analysis of black philosophical writings within the context of American thought; African, Afro-American and Afro-Caribbean black writers; their philosophical, psychological and ethical ideas; concepts of Afro-Americanism, Negritude, Afro-Saxonism, black power, accommodation and Pan Africanism; the presuppositions of black, Negro, colored and Afro-American thinking

3 s.h.

Prerequisite: A course in American History or Philosophy.

1501-0401 Old English Language and Literature

Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of Pre-Conquest England. Recitation and reading in the original Old English. No previous language training required.

3 s.

1507-0316 Reporting of Public Affairs

Practical opportunity for journalism students to write news articles on local political activity. Report and analysis of specific duties and activities of local legislative and judicial officials.

3 s.

Prerequisite: One course in basic journalism writing or consent of instructor.

1507-0407 Critical Writing

Frequent essay writing applying the major traditional and contemporary theories of literature, singly and in combination, to selected literature as aesthetic structure.

3 s.

1507-0410 Advanced Creative Writing: Drama

Focusing on the writing of plays, both one-act and full-length traditional forms explored.
 Freedom to investigate new trends in the theatre. 3 s.h.

Prerequisite: 1507-0210 and/or consent of instructor.

1507-0412 Advanced Creative Writing: Poetry

Advanced work in the writing of poetry. 3 s.h.

Prerequisite: 1507-0212 and/or consent of the instructor.

1507-0415 Advanced Creative Writing: Prose

Advanced work in the writing of prose. 3 s.h.

Prerequisite: 1507-0215 and/or consent of the instructor.

1507-0416 Interpretive Journalism

The structure, purposes and techniques of editorial and interpretative journalism; practice in writing editorials and critical reviews. 3 s.h.

Prerequisite: a basic course in journalism or comparable experience.

501-0444 Seventeenth-Century English Poetry

Major currents; the schools of Donne and Jonson; the work of Marvell and Dryden. 2 or 3 s.h.

501-0446 Literature of the Irish Renaissance Period

Background influences (symbolism and Irish mythology as sources for metaphors) to how the Irish expression of romanticism, naturalism, symbolism and realism. Particular contributions in various areas; Joyce, Shaw and Yeats. 3 s.h.

501-0455 Restoration Drama

Wycherley, Congreve, Vanbrugh and Dryden in relation to dramatic forms and conventions; production techniques of the era, three major innovations: comedy of manners, proscenium stage, the actress. 2 or 3 s.h.

501-0454 Film and Society

A study of the motion picture as a force that reflects and molds social and moral attitudes. 3 s.h.

501-0456 The Twentieth Century English Novel

Longer British fiction from Galsworthy to Kingsley Amis, Joyce, Forster, Conrad, Lawrence and A. Huxley. 3 s.h.

503-0460 Seminar in Creative Mythology

The broad humanities import of mythology, archetypal and related theories in literature, the arts, philosophy, religion, science and the social sciences; creative participation in these disciplines; each participant's continued self-discovery and creative evolution. 3 s.h.

Prerequisite: 0260: Myth and Literature with a background in the Archetypal Theory and/or permission of the instructor.

503-0463 History of Criticism

The major figures in literary criticism from classical to modern times; Plato, Aristotle, Horace and Longinus; their "imitators" and "interpreters" in the Renaissance and Neo-Classical periods; innovations of the Romantics and of modern critics such as T. S. Eliot and I. A. Richards. 3 s.h.

503-0464 Modern Poetry: French Symbolists to T. S. Eliot

Representative Symbolist, Georgian and Imagist poets; theories and principles as basis for modern poetry. 2 or 3 s.h.

501-0471 Teaching English in the Secondary School

An organic approach to the problems of communicating both the disciplines and the human dimensions of English as a subject in the classroom. 3 s.h.

Prerequisite: 18 credits in English and the preliminary field experience completed or concurrent.

1505-0474 Modern Drama on Film

Outstanding film versions of great plays from the American and European Theatre; theatre versions of play compared to film version. 3 s.h.

1501-0475 Study-Travel

Varied intellectual and cultural experiences in Britain. See current course offerings for specific opportunities and probable prerequisites. Credit by evaluation

1505-0484 Metaphorical Grammar

The relation of the deep and surface structures of English to show the poet and the prose stylist how grammar may be extended to enrich and simplify language. 3 s.h.

1505-0490 Seminar in Linguistics

The linguistic approach to literary criticism; reading and group discussion, linguistic evaluations of literature; tests of such evaluations against the archetypal approach; linguistic approach to decoding the language of the artist. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Linguistics. Enrollment limited.

1507-0491 Seminar in Writing

Individual attention and instruction to the advanced student in creative writing, expository writing, journalism or theories of the teaching of composition. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Writing. Enrollment limited.

1503-0492 Seminar in Comparative Literature

Exploring a culture, era, literary approach, theme, group of authors, single work or parts of a work through literary masterpieces; intellectual, historical, biographical, artistic and other backgrounds. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Comparative Literature. Enrollment limited.

1501-0493 Seminar in American Literature

The works of one American author; all critical approaches explored. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in American Literature. Enrollment limited.

1501-0493 Seminar in English Literature

The work of one major British author, chosen by the department, professor and participating students. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in English Literature. Enrollment limited.

Department of French

Professor: Klibbe, Chairman

Associate Professors: Cagnon, Roederer, Standring, Szklarczyk, Wilkins

Assistant Professors: Arnau, Glick, Sergent, Stetson, Soffer

The Department of French prepares Liberal Arts and Teacher Education student in sound scholarship, culture and an understanding of the French people. Courses are planned to provide linguistic skill, literary appreciation and understanding of human relationships.

Majors who intend to continue their studies beyond the Bachelor of Arts are advised to acquire proficiency in at least one other foreign language.

An attractive option in French language study is a year of study in a foreign country. Students desiring academic credit for study abroad must obtain permission from the chairman. The country and institution in which the student wishes to study, the amount of credit to be received, and reports to be made are arranged with the Study Abroad Advisor of the Department.

Students may also elect an 18-hour Minor in French, or a 24-hour second teaching field in French.

REQUIRED FOR ALL FRENCH MAJORS	semester hours
1505-0210 Introduction to General Linguistics	3

Incoming French Majors should register for the following courses in Freshman year:

1102-0150, 0155 French Stylistics & Composition I, II	3 ea.
1102-0155 French Phonetics	2

These courses are prerequisites to all French Major courses.

French Major

I. Requirements

	semester hours
1102-0150, 0151 French Stylistics & Composition I, II	3 ea.
1102-0155 French Phonetics	2
1102-0201 17th Century French Literature (Prerequisite 1102-0220)	3
1102-0210 18th Century French Literature (Prerequisite 1102-0220)	3
1102-0220 Explication de Texte	3
1102-0301 19th Century French Literature (Prerequisite 1102-0220)	3
1102-0310 20th Century French Literature (Prerequisite 1102-0220)	3
REQUIRED TOTAL 23	

II. Electives: * Select at least 10 semester hours from:

1102-0160 French Civilization: 19th & 20th Centuries	3
1102-0165 Spoken Language Practice	2
1102-0202 17th Century Theater	2
1102-0211 18th Century Theater	2
1102-0230 French Cinema	2
1102-0250 Advanced Composition	2
1102-0251 Advanced Syntax	2
1102-0260 Origins of French Civilization	3
1102-0261 Music in French Civilization	3
1102-0265 Advanced Spoken Language Practice	2
1102-0311 Contemporary French Drama	2
1102-0315 Dada and Surrealism	2
1102-0330 Survey of Medieval Literature	3
1102-0335 The French Renaissance	3
1102-0340 Survey of French Poetry	2
1102-0345 Development of French Novel to 1900	3
1102-0349 French Literature in the World	3
1102-0350, 0351 Translation I, II	3 ea.
1102-0360 French Perspectives	2
1102-0365 Introduction to Consecutive & Simultaneous Interpreting	3
1102-0375 Study Abroad	Credit by Evaluation
1102-0410 Advanced French Grammar	3
1102-0467, 0468, 0469, 0470 Seminars	3 to 12
1102-0472 French Language Workshop	2
1102-0478 Independent Study	Credit by evaluation
REQUIRED TOTAL 33	

Concentration in Translation & Interpretation

I Requirements

1102-0150, 0151 French Stylistics & Composition 1, II	3 ea.
1102-0155 French Phonetics	2
1102-0160 French Civilization: 19th & 20th Centuries	3

1102-0220	Explication de Texte .....	..	3
1102-0265	Advanced Spoken Language Practice .....	..	2
1102-0350, 0351	Translation I, II	3 ea.	3
1102-0365	Consecutive & Simultaneous Interpreting I or	..	3
1102-0452	Translation III .....	..	3
	French Electives .....	..	8

REQUIRED TOTAL 33

French majors are strongly encouraged to take courses over and above the minimum requirement of 33 hours.

TEACHER EDUCATION

Students desiring teacher certification must:

- 1) have a "B" average in French,
- 2) apply to the Teacher Education program in their Sophomore year,
- 3) take a proficiency test at the end of the sophomore year.

Those accepted are required to take: 1102-0419, Teaching of French in Secondary Schools, 3 s.h.

They must also select the professional sequence outlined by the Education Department.

SECOND TEACHING FIELD IN FRENCH

semester hours

A minimum of 24 semester hours required from the following:

1102-0150, 0151	French Stylistics & Composition I, II	3 ea.
1102-0155	French Phonetics	2
1102-0220	Explication de Texte	3
1102-0250	Advanced Composition or	2
1102-0165	Spoken Language Practice	2
	Literature courses	6
	French Electives	1

REQUIRED TOTAL 24

Minor in French

A minimum of 18 semester hours required from the following:

1102-0150, 0151	French Stylistics & Composition I, II	3 ea.
1102-0155	French Phonetics	1
1102-	French Literature courses	1
1102-	French electives	1

REQUIRED TOTAL 11

COURSE DESCRIPTIONS

Students who wish to begin French in College should register for 1102-0101 Beginning French I.

Students who wish to continue their study of French in College and have had:

Two years of High School French—register for: 1102-0111 Beginning French II
1102-0121 Intermediate French I

Three years of High School—register for 1102-0132 Intermediate French II

1102-0100 French Reading Course

Learning to read French as a tool for research (a "service" course for MA candidates in English; successful completion of this course will satisfy the language requiremen

1102-0101 and 0111 Beginning French I and II

For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Laboratory work available.

3 s.h.

*All courses not offered every year.

1102-0120 Intensive Elementary French

An intensive course covering the Beginning French program. Laboratory work available.
3 s.h.

1102-0121 and 0132 Intermediate French I and II

Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
3 s.h. ea.

1102-0141 Advanced French

Improvement of language skills through a selection of texts.
3 s.h.

1102-0150 and 0151 French Stylistics and Composition I and II

Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
3 s.h. ea.

102-0155 French Phonetics

Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation; intensive Language Laboratory work.
2 s.h.

102-0160 French Civilization 19th & 20th Centuries

Various aspects of the material, intellectual, artistic, and spiritual life of France.
3 s.h.

102-0165 Spoken Language Practice

Intensive conversation with organized discussions on subjects of special interest.
2 s.h.

102-0201 17th Century French Literature

The most representative authors of the century.
3 s.h.

102-0202 17th Century Theater

plays of Corneille, Racine and Moliere.
2 s.h.

02-0210 18th Century French Literature

Main writings of the Age of Enlightenment.
3 s.h.

02-0211 18th Century Theater

Comedy, tragedy and the origin of the **drame**.
2 s.h.

102-0220 Explication de Texte

Improvement of reading skills and literary perception through the technique of the **explication de texte**, using examples from a wide variety of periods and genres.
3 s.h.

102-0230 French Cinema

Development of film art with special emphasis on the contemporary period.
2 s.h.

102-0250 Advanced Composition

Review of advanced grammar through intensive written and oral practice.
2 s.h.

102-0251 Advanced Syntax

Advanced French syntactical theory.
2 s.h.

102-0260 Origins of French Civilization

French history and cultural development from the Middle Ages to the Revolution.
3 s.h.

102-0261 Music in French Civilization

Composers from the Middle Ages (Perotin) to modern times (Boulez); their social and cultural backgrounds.
3 s.h.

102-0265 Advanced Spoken Language Practice

Intensive conversation on an advanced level on selected and varied topics.
2 s.h.

102-0301 19th Century French Literature

Principal literary currents from Romanticism to Symbolism.
3 s.h.

1102-0310 20th Century French Literature	Representative works of contemporary theater and the novel.	3 s.h.
1102-0311 Contemporary French Drama	Theatre from the beginning of the century to the present.	2 s.h.
1102-0315 Dada and Surrealism	The Dada and Surrealist movements; their influence on twentieth century life.	2 s.h.
1102-0330 Survey of Medieval Literature	Development of the principal genres: Chanson de geste , courtly romance, drama and poetry.	3 s.h.
1102-0335 The French Renaissance	Selected works of Rabelais, Montaigne and the poets of the Pleiade.	3 s.h.
1102-0340 Survey of French Poetry	Development of principal poetic movements with emphasis on the 19th and 20th centuries.	2 s.h.
1102-0345 Development of French Novel to 1900	Evolution of fiction from Mme de la Fayette and Diderot to Zola and the Decadents.	3 s.h.
1102-0349 French Literature in the World	Representative writers of Canada, French speaking Africa and the Caribbean.	3 s.h.
1102-0350 and 0351 Translation I and II	Techniques of translation; English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.	3 s.h. ea.
1102-0360 French Perspectives	A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.	2 s.h.
1102-0365 Introduction to Consecutive and Simultaneous Interpreting	The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting French-English, English-French.	3 s.h.
1102-0375 French Study Abroad	Junior year abroad in a French University.	Credit by evaluation
1102-0410 Advanced French Grammar	A review of the most important structural features of French, with special emphasis on areas of interference with English structure.	3 s.l.
1102-0419 Teaching of French in Secondary Schools	Lesson planning; evaluation of techniques; demonstration of teaching procedures; teaching aids; exploration of direct method and audio-lingual approaches.	3 s.
1102-0452 Translation III	Translation of articles in specific fields of interest to improve translation skills.	3 s.
1102-0467, 0468, 0469, 0470 Seminars	Selected topics to be studied in depth with emphasis on methods of inquiry. Top announced each semester.	3 to 12 s.
1102-0472 French Language Workshop	A thorough foundation in French at the level required for successful graduate studies.	2 s.
1102-0478 Independent Study	Directed independent study and research in French language and literature.	3 s.

HUMANITIES ELECTIVE (in English)

semester hours

4903-0155	Introduction to French Literature: Middle Ages to 18th Century	3
4903-0156	Introduction to French Literature: 19th and 20th Centuries	3
4903-0250	French Perspectives	3
4903-0260	Major Currents of Modern Thought in French Literature	3
4903-0265	Modern French Theater	3
4903-0286	French Cinema	2
4903-0287	Modern French Fiction	3
4903-0288	Music in French Civilization	3
4903-0275	The Writer's Craft in French Literature	3
4903-0245	The Napoleonic Wars in Fact and Fiction	3
4903-0386	Development of French Novel to 1900	3
4903-0390	Contemporary French Anti-Literature 1950-1970	3
4903-0186	Myths & Images of Women in French Literature	3
1102-0375	French Study Abroad	3

COMPARATIVE LITERATURE ELECTIVES (in English)

1503-0365	The Age of Enlightenment	3
1503-0366	The Romantic Hero	3

COURSE DESCRIPTIONS

903-0155 Introduction to French Literature: Middle Ages to 18th Century (in English)
Study of major works and literary social movements of that period. 3 s.h.

903-0156 Introduction to French Literature: 19th & 20th Centuries (in English)
Study of major works and trends of that period. 3 s.h.

903-0250 French Perspectives (in English)
Interplay of contemporary political, economic, social and artistic events in France and the U.S. 3 s.h.

903-0260 Major Currents of Modern Thought in French Literature (in English)
Study of the dominant social, theological and esthetic movements in French literature through selected works of prose and drama from the beginning of the century to the present. 3 s.h.

903-0265 Modern French Theater (in English)
Study of the most significant plays of Blaudel, Montherlant, Giradoux, Sartre and Beckett. 3 s.h.

903-0286 French Cinema (in English)
Development of film art with special emphasis on the contemporary period. 2 s.h.

903-0287 Modern French Fiction (in English)
Major novelistic modes from the writer-artist conceptions of Gide, through the "committed" literature of Sartre and Camus, to Robbe-Grillet's "New Novel" of the 50's. 3 s.h.

903-0288 Music in French Civilization (in English)
Composers from the Middle Ages (Perotin) to modern times (Boulez) in relation to their social and cultural backgrounds. 3 s.h.

903-0275 The Writer's Craft in French Literature (in English)
Imagery in selected works of French prose and drama, as building blocks in the writer's craft, as stylistic means for the expression of an author's dominant ideas and attitudes. 3 s.h.

903-0245 The Napoleonic Wars in Fact and Fiction (in English)
The historical novel as a genre; the relation of fiction to fact. 3 s.h.

4903-0386 Development of French Novel to 1900 (in English)

Evolution of fiction from the feminist writings of Mme de la Fayette and Diderot's literature of social involvement to Zola and the Decadents. 3 s.h.

4903-0390 Contemporary French Anti-Literature 1950-1970 (in English)

Prose writing from the "New Novelists" to structuralist fiction and recent non-genre paraliterature. 3 s.h.

4903-0186 Myths & Images of Women in French Literature (in English)

Literary treatments of female characters in representative works from the Middle Ages to the present. 3 s.h.

1102-0375 French Study Abroad

A three-week cultural seminar in Paris, held during the January intersession and organized by the French Department. No knowledge of French is necessary. 3 s.h.

1503-0365 The Age of Enlightenment (in English)

The European Enlightenment, principally as the rational critical attack on tradition, and the beginnings of the movement of pre-romanticism and sensitivity. 3 s.h.

1503-0366 The Romantic Hero (in English)

The study of the hero in English, German and French romantic literature. 3 s.h.

Program in General Humanities

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, the alternative ways in which man has seen himself in the past and sees himself today. In their concern for the articulation of an authentically human way of being, such studies function as a critical agent of those approaches which tend to dehumanize man. Among social, scientific, philosophical and religious studies, in literary and artistic expressions, the Humanities seek the common awareness of the human problem and the varying attempts at its solution.

Since the perspective of the Humanities is interdisciplinary, the program is trans-departmental, its faculty selected from the many disciplines which share this common concern. In order to assure this perspective, the program is supervised by a committee with representation from areas of literature, language, philosophy, religion, the arts, the social sciences, history, mathematics and science.

The program has been designed so that, in addition to the general approaches to the matter and methodology of the Humanities in the core curriculum, the student will have the opportunity to exercise personal selectivity in planning his concentration from the total range of College offerings.

The major in General Humanities is recommended for students with broad interest in liberal arts. As a double major it offers an ideal complement for major-specialization in such areas as the social sciences, history, literature, the languages, the sciences and the arts.

General Humanities Major

I. Perspectives in the Humanities: The Core Curriculum

A. The Contemporary Perspectives	semester hours
4903-0101 Man: the Contemporary Search	3
4903-0151 Inquiry in the Humanities	3
B. Historical and Transcultural Perspectives	
4903-0201 Man: the Historical Search I	3
4903-0202 Man: the Historical Search II	3
4903-0251 Man without Boundaries	3

II. Concentration in the Humanities	15
Each major, in cooperation with an adviser and the General Humanities Committee, will plan an area of concentration from the total offerings of the College. The concentration is to be humanities-oriented and interdisciplinary in structure.	
III. Senior Humanities Seminar	4
	—
	REQUIRED TOTAL 34

COURSE DESCRIPTIONS

4903-0101 Man: the Contemporary Search

An interdisciplinary inquiry into the contemporary awareness of the problem of man.
3 s.h.

4903-0151 Seminar: Inquiry in the Humanities

An introduction to the methodologies and modes of interpretation in the Humanities. Students will concentrate on one contemporary problem or theme, approached from an interdisciplinary perspective.
3 s.h.

4903-0201 Man: the Historical Search I

The contemporary problem of man, approached from an historical perspective through selective, rather than chronological, study of seminal moments from ancient to Renaissance in evolution of human consciousness of problems of being human.
3 s.h.

4903-0202 Man: the Historical Search II

The study of seminal moments, from Renaissance to 20th century, in the evolution of human consciousness of problems of being human.
3 s.h.

4903-0251 Man Without Boundaries: The Transcultural Perspective

A comparative, interdisciplinary study of the transcultural awareness of the problem of man and the human condition.
3 s.h.

1903-0499 Senior Humanities Seminar

A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem rising from his concentration.
4 s.h.

With the exception of 4903-0499, all courses listed above may be elected in the General Education Requirement pattern. Other humanities courses to be used as GER electives are listed with the 4903 prefix under the following departmental headings: Classics, English, French, German/Russian and Spanish/Italian. All 4903 offerings are taught in the English language.

Department of German and Russian

Professors: Heilbronner, Lenel

Associate Professors: Moore, Chairman; Schlant

Assistant Professors: Lindblom, Shore, Soffer

The Department of German and Russian prepares students in the Liberal Arts and Teacher Education by offering courses geared to give command of the two languages and an understanding of the respective literatures and cultures. Prospective teachers are required to take courses in phonetics, general linguistics and teaching methodology. German may be selected as a Liberal Arts major, a Teacher Education major, a second teaching field or a liberal arts minor. Russian courses are designed to meet special interests of students and to complement other major fields. Russian may be selected as a second teaching field or a liberal arts minor. Majors in German are encouraged to arrange for academic study in a German-speaking country, whether it is for a summer, a semester or an entire academic year. For such work undertaken with the approval of the Department they receive academic credit.

German Major

I. Required courses	semester hours
1103-0141 Review of Fundamental Grammar	3
1103-0151, 0152 Advanced German I, II	3 ea.
1103-0251, 0252 Introduction to Literature I, II	3 ea.
1103-0351, 0352 German Civilization I, II	3 ea.
II. Elective courses: Select at least four of the following:	
1103-0142 Practice in Written German	3
1103-0209 Phonetics and Phonology	3
1103-0309 Practice in Spoken German	3
1103-0310 Advanced Composition	3
1103-0315, 0316 Translation I, II	3 ea.
1103-0320 Development of the German Language	3
1103-0341 German Literature from the Origins to the Reformation	3
1103-0342 German Literature from the 16th to the 18th Centuries	3
1103-0360 Modern German Prose Fiction	3
1103-0362 Development of German Poetry	3
1103-0364 German Drama of the 19th and 20th Centuries	3
1103-0375 Study Abroad	Credit by evaluation
1103-0380, 0381 Independent Study in German (Junior Level)	3 ea.
1103-0410 German Grammar; Applied Linguistics	3
1103-0441 The Age of Goethe	3
1103-0442 The Age of Schiller	3
1103-0460 Senior Seminar	3
1103-0480, 0481 Independent Study in German (Senior Level)	3 ea.

REQUIRED TOTAL 33

Students who desire teacher certification must select the professional sequence outlined by the Education Department, including the following courses:

semester hours
1505-0210 Introduction to General Linguistics
1103-0410 German Grammar; Applied Linguistics
1103-0419 Teaching German in Secondary Schools

They are urged to elect:

1103-0142 Practice in Written German
1103-0209 Phonetics and Phonology

It is emphasized that the total of 33 semester hours required for the major is regarded as a minimum. Majors are encouraged to take as many German courses as they wish beyond this minimum.

Minor in German

1103-0141 Review of Fundamental Grammar	3
1103-0151, 0152 Advanced German I, II	3 ea.
Three additional courses in German (1103 prefix only) beyond the intermediate level	9

TOTAL REQUIRED 18**SECOND TEACHING FIELD IN GERMAN**

1103-0141 Review of Fundamental Grammar	3
1103-0151, 0152 Advanced German I, II	3 ea.
1103-0251, 0252 Introduction to German Literature I, II	3 ea.
Three additional courses in German (1103 prefix only) beyond the intermediate level	9

TOTAL REQUIRED 24

Minor in Russian

1106-0101 and 0112 Beginning Russian	6
1106-0121 and 0132 Intermediate Russian	6
1106-0141 and 0152 Advanced Russian	6

TOTAL REQUIRED 18

Under certain circumstances and with permission of the Department Chairman, other elected courses may be counted toward the Academic Minor in Russian.

ECOND TEACHING FIELD IN RUSSIAN

1106-0101 and 0112 Beginning Russian	6
1106-0121 and 0132 Intermediate Russian	6
1106-0141 and 0152 Advanced Russian	6
4903-0293 Russian Culture and Civilization	3
4903-0294 Russian Prose and Drama	3

TOTAL REQUIRED 24

Under certain circumstances and with permission of the Department Chairman, other elected courses may be counted toward the Second Teaching Field in Russian.

GERMAN COURSE DESCRIPTIONS**103-0101 and 0112 Beginning German (Speaking)**

For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional. 3 s.h. ea.

Prerequisite: 0101 or equivalent for 0112.

103-0103 and 0114 Beginning German (Reading)

For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed. 3 s.h. ea.

Prerequisite: 0103 or equivalent for 0114.

103-0121 and 0132 Intermediate German (Speaking)

Continuation of German 0101 and 0112; open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional. 3 s.h. ea.

Prerequisite: 0112 or equivalent for 0121; 0121 or equivalent for 0132.

103-0123 and 0134 Intermediate German (Reading)

Continuation of German 0103 and 0114; open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields; outside reading required. 3 s.h. ea.

Prerequisite: 0114 or equivalent for 0123; 0123 or equivalent for 0134.

103-0141 Review of Fundamental Grammar

Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference. 3 s.h. ea.

Prerequisite: 0132 or 0134 with permission of the Instructor or 3-4 (preferably 4) years of high school German.

103-0142 Practice in Written German

Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification. 3 s.h.

Prerequisite: 0141.

103-0151 and 0152 Advanced German

Continuation of Intermediate German on a more advanced level. Students must follow oral instruction in German, speak and write simple idiomatic German and read and

discuss increasingly difficult assignments in literary German, particularly in the second semester. Required of freshman majors, who are given admission preference. German 0141 must be taken simultaneously with German 0151. 3 s.h. ea.
 Prerequisite: 0132 or 0134 with permission of the Instructor or 3-4 (preferably 4) years of high school German for 0151; 0151 for 0152.

1103-0209 Phonetics and Phonology

Application of phonetic science to the acquiring and teaching of good pronunciation the International Phonetic Alphabet; problems of articulation, rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification. 3 s.h.

1103-0251 and 0252 Introduction to Literature

Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given admission preference. 3 s.h.
 Prerequisite: 0251 for 0252.

1103-0309 Practice in Spoken German

Intensive conversation practice to improve fluency and increase active vocabulary. 3 s.l.

1103-0310 Advanced Composition

Intensive written exercises to improve command of the German language; some original work. 3 s.

1103-0315 Translation I

Intensive practice in the skills of translating professional texts from German into English and from English into German. 3 s.

Prerequisite: Permission of Instructor and Department Chairman.

1103-0316 Translation II

Continuation of 0315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc. 3 s.

Prerequisite: 0315 and permission of Instructor.

1103-0320 Development of the German Language

Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar. 3 s.

1103-0341 German Literature from the Origins to the Reformation

Works representative of the Old High German, Middle High German and late medieval periods read in modern German version; the most important genres and trends, ending with excerpts from Luther's works. 3 s.

1103-0342 German Literature from the 16th to the 18th Centuries

Representative works illustrating the trends preceding the classical period. 3 s.

1103-0351 and 0352 German Civilization

Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany: re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference. 3 s.h. ea.
 Prerequisite: 0351 for 0352.

1103-0360 Modern German Prose Fiction

Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent. 3 s.h.

03-0362 Development of German Poetry

The poetical movements, authors and genres since 1600; the evolution of forms, such as the sonnet and the ode; analysis and interpretation of poetry. 3 s.h.

03-0364 German Drama of the 19th and 20th Centuries

Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of drama. 3 s.h.

03-0375 Study Abroad

An opportunity to gain first-hand knowledge of the historical, social, economic and cultural life of German-speaking Europe. Credit by evaluation

03-0380 and 0381 Independent Study in German (Junior Level)

Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. (See also 030 and 0481.) 3 s.h. ea.

Prerequisite: Permission of Instructor and Department Chairman.

03-0410 German Grammar: Applied Linguistics

A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification. 3 s.h.

03-0419 Teaching German in Secondary Schools

The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification. 3 s.h.

03-0441 The Age of Goethe

The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote. 3 s.h.

03-0442 The Age of Schiller

The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems. 3 s.h.

03-0460 Senior Seminar

Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Hölderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper. 3 s.h.

03-0480 and 0481 Independent Study in German (Senior Level)

Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. (See also 030 and 0381.) 3 s.h. ea.

RUSSIAN COURSE DESCRIPTIONS

115-0101 and 0112 Beginning Russian

For students without previous instruction in Russian; the fundamentals of grammar and pronunciation. Laboratory work. 3 s.h. ea.

Prerequisite: 0101 or equivalent for 0112.

115-0121 and 0132 Intermediate Russian

Continuation of Russian 0101 and 0112; open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation; more advanced conversation. Laboratory work. 3 s.h. ea.

Prerequisite: 0112 or equivalent for 0121; 0121 or equivalent for 0132.

100 / Humanities Elective Courses

1106-0141 and 0152 Advanced Russian

Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work. 3 s.h. ea.
Prerequisite: 0132 or equivalent for 0141; 0141 or equivalent for 0152.

1106-0478 Independent Study in Russian

Directed individual study and research in Russian for special students.
Prerequisite: Permission of Instructor and Department Chairman.

3 s.

COMPARATIVE LITERATURE COURSE DESCRIPTIONS

1503-0381 The Comic and Satiric Tradition

The major comic and satiric writings in the Western tradition, from Aristophanes to the literature of the present; the comic, the satiric, the macabre, the grotesque, black humor, melodrama, etc., and their relevance to our daily lives.

3 s.

Humanities Elective Courses

4903-0292 German Literature 1890-Present (in English)

The principal movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required.

3 s.

4903-0293 Russian Culture and Civilization (in English)

The history of Russian literature and culture: outstanding aspects of Russian civilization. No knowledge of Russian is required.

3 s.

4903-0294 Russian Prose and Drama (in English)

Russian prose and drama from the 18th century to the present day. Representative works: Pushkin, Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required.

3 s.

4903-0295 German Expressionism (in English)

Various aspects of German Expressionism encompassing roughly the period between the two World Wars; the political and social climate of the Weimar Republic; literature, painting, sculpture, music and film of that era; defining Expressionism as a specific historical period as well as a perennial stylistic device. No knowledge of German is required.

3 s.

4903-0392 The Modern German Novel (in English)

Reading and discussion of selected novels by great 20th-century authors who wrote in German: Thomas Mann, Franz Kafka, Hermann Hesse, etc.; these works as expressions of the ages they represent. No knowledge of German is required.

3 s.

4903-0395 The German 'Lied' (in English)

An interdisciplinary course tracing the German Art Song since its emergence in the 18th century; analysis of this mixed art form; evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German nor musical sophistication is necessary.

Prerequisite: None, but the student should be interested in listening to serious music and studying German lyric poetry in English translation; access to a record player desirable.

Important note: German majors may count as a major elective one **and only one** of the German courses from the above group (i.e. 0292, 0295, 0392 or 0395).

Department of Linguistics

Professor: Miller

Associate Professor: Knecht, Chairman

Assistant Professors: Freed, Seegmiller

Instructor: Ngunjiri

Participating Faculty from other departments: Professor Kelly (Classics);

Associate Professor Susi (Spanish), Assistant Professor Haupt (Psychology) and Klein (Anthropology)

The course offerings of the Linguistics Department reflect the variety and extent of one of the most critical preoccupations of the twentieth century. Interested students can pursue the scientific study of language in degrees of concentration and areas of specialization according to their needs and/or desires.

Since language penetrates virtually every facet of our experience, the Department makes available to students majoring or minoring in anthropology, sociology, psychology, philosophy, English, foreign languages, speech, mathematics, education, teaching-English-as-a-foreign-language, etc., courses dealing with the important contributions of linguistics to these disciplines. The inherently interdisciplinary character of linguistics suggests that students in these fields may wish to consider interdisciplinary studies involving some degree of concentration in linguistics.

A Minor in Linguistics can be earned with 18 semester hours of study. Linguistics 0210 is required. Other course selections for the Minor must be approved by the Department Chairman. Students in the Teacher Education program who wish to teach English to speakers of other languages may pursue the 24 semester hour TESOL sequence which leads to certification in English as a second teaching field. Linguistics 0210, 0220, 325 are required, as are TESOL Methods (1508-0403) and Field Experience (1508-0430). Electives will be chosen in consultation with the Department Chairman.

Linguistics Major Program

Required Courses	12 semester hours
1505-0210 Introduction to General Linguistics	3
1505-0230 Phonetics & Phonological Theory	3
1505-0310 Structural Grammar	3
1505-0320 Transformational Grammar	3
Elective Courses	
1505-0220 Structure of American English	3
1505-0245 Language and Culture	3
1505-0250 Language of Propaganda	3
2001-0250 Psycholinguistics	3
1505-0255 Women and Language	3
1505-0260 Dialectology	3
1505-0270 History of Linguistics	2
1505-0280 Bilingualism	3
1505-0284 History of the English Language	3
1505-0325 Contrastive Linguistics	3
1505-0330 Sociolinguistics	3
1505-0340 Linguistics and Literary Analysis	2
1505-0370 Comparative and Historical Linguistics	3
1505-0384 Grammars of English	3
1505-0410 Linguistics and Philosophy	3
1505-0420 Mathematical Linguistics	3
1505-0430 Field Methods	3
1505-0440 Structures and Origins of the Rom. Lang.	3
1505-0441 Compar. Study of the Evol. of Rom. Lang.	3
2202-0463 Anthropological Linguistics	3

1505-0480	Linguistics in Education and Society	3
1505-0484	Metaphorical Grammar	3
1505-0490	Seminar in Linguistics	3

REQUIRED TOTAL 33

COURSE DESCRIPTIONS

1505-0210 Introduction to General Linguistics

The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning. 3 s.h.

1505-0220 Structure of American English

The structure of American English: phonology, morphology, syntax; geographical and social dialects; various speaking and writing styles. Traditional, structural and transformational approaches to grammar. 3 s.h.

1505-0230 Phonetics and Phonological Theory

How sounds are produced in various languages, their acoustic properties, classification and description. Workbook problems based on many languages. 3 s.h.

1505-0245 Language and Culture

Language in its cultural context. Relationship of linguistic to non-linguistic variables ethnosemantics, componential analysis, glottochronology, linguistic relativity principle 3 s.h.

1505-0250 Language of Propaganda

An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis on how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, jargon emotive language, etc. 3 s.h.

2001-0250 Psycholinguistics

The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structure, semantic meaning and speech production and comprehension. 3 s.h.

Prerequisites: 2001-0105 and permission of the instructor.

1505-0255 Women and Language

A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on Women and Language plus practical experience in collecting and analyzing linguistic data. 3 s.l.

1505-0260 Dialectology

Principles of dialect study; application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspective 3 s.

1505-0270 History of Linguistics

Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'school' structuralism, glossematics, Prague school, London school, tagmemics, stratification grammar, transformational grammar. 2 s.

1505-0280 Bilingualism

Compound and coordinate bilingualism; attitudes, motivation, etc.; functions of languages in multilingual settings; problems of newly-independent, multilingual nations establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English 3 s.

1505-0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians; the Germanic strains and the morphology of Old and Middle English. 3 s.h.

1505-0290 Foundations of Language

Historical perspective on language studies; foreign language patterns; processes of linguistic change. A rich fund of general knowledge to strengthen the student's grasp of linguistic principles. Course intended for the general student. 3 s.h.

1505-0310 Structural Grammar

Principles of structural grammar, including its offshoot, tagmemics. Word formation and overt sentence structure of familiar and exotic languages. Segmentation and classification of meaningful elements according to specific formal criteria. Workbook problems based on many languages. 3 s.h.

1505-0320 Transformational Grammar

Problems of writing grammars that generate all and only the grammatical sentences of a language. Knowledge and performance in language; underlying and surface structures; the theory and goals of linguistic description. Workbook problems from various languages, but emphasis on English. 3 s.h.

505-0325 Contrastive Linguistics

Comparison of the phonological, grammatical and lexical structures of English with those of other languages; problems of learning a foreign language due to the interference of the native language. 3 s.h.

505-0330 Sociolinguistics

Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Emphasis on Black English. The role of second languages within a society: pidgins, creoles, lingua francas, diglossia, etc. 2 s.h.

505-0340 Linguistics and Literary Analysis

Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that account for our intuitions about the poetic or prose style author, literary work or genre. Contributions of transformational grammar to the problems of style; transformational grammar and metrics. 2 s.h.

505-0370 Comparative and Historical Linguistics

Mirabilities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change. 3 s.h.

105-0384 The Grammars of English

Review of traditional English grammar; introduction to new theories of grammar; the place of grammar in the teaching of rhetoric and composition. 3 s.h.

Prerequisite: 1505-0284

105-0401 Methods of Teaching Foreign Language in Elementary School

Procedures for teaching children in elementary school to understand a spoken foreign language, and to speak it with a correct pronunciation; exposing children to a foreign culture by means of songs, stories, realia, etc. 2 s.h.

105-0410 Linguistics and Philosophy

The joint contribution of generative grammar and analytic philosophy toward solving problems shared by linguistics and philosophy. Theory of performatives; the problems of meaning, reference, synonymy, necessity, analyticity; the innateness hypothesis. 3 s.h.

105-0419 The Teaching of Foreign Languages in Secondary Schools

Approaches to foreign language teaching. Techniques and procedures for teaching our language skills. Enrichment through audio-visual and electronic aids. Collateral reading, lesson planning, and organizing of teaching materials required. 3 s.h.

1505-0420 Mathematical Linguistics

Formal models of generative grammars and abstract automata. The application of set theory, symbolic logic, theory of relations, Boolean algebra, etc. to the study of language.

3 s.h.

1505-0430 Field Methods

Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

3 s.h.

1505-0440 Structures and Origins of the Romance Languages

The linguistic features of the modern Romance languages; their emergence from a common ancestor, continuous differentiation, and similarities and differences 2000 years later.

3 s.h.

1505-0441 Comparative Study of the Evolution of the Romance Languages

Processes of linguistic change in the Romance field as established by the comparative method; Proto-Romance and other intermediate stages in the evolution of the Romance languages; sample downtracing to the modern forms.

3 s.h.

2202-0463 Anthropological Linguistics

Linguistic systems through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages; the relationship of linguistic structure and theory to cultural systems; individual student field experience; readings and lectures.

3 s.h.

Prerequisite: 2202-0100 or 1505-0210

1505-0480 Linguistics in Education and Society

The course is intended to acquaint students involved in language education of any sort with the applications and implications of linguistics for education and for understanding the functioning of language in society.

3 s.h.

1505-0484 Metaphorical Grammar

The relation of the deep and surface structure of English to show the poet and the prose stylist how grammar may be extended to enrich and simplify language.

3 s.h.

1505-0490 Seminar in Linguistics

The linguistic approach to literary criticism; reading and group discussion, linguistic evaluations of literature; tests of such evaluations against the archetypal approach linguistic approach to decoding the language of the artist.

3 s.t.

Prerequisite: Designed for upper class English majors with a specialization in Linguistics. Enrollment limited.

Department of Philosophy and Religion

Professors: Brantl, Chairman; Lipman; Richardson

Associate Professor: Fleischner

Assistant Professors: Aman, Benfield, Bridges, Johnson, McCollum, Stanton, Streetman

Instructor: Kogan

Critical reflection on man's ultimate commitments and beliefs—his values and meanings, his modes of existing and knowing—is integral to the humanistic pursuit of all areas of the curriculum. The department's offerings are designed to function as interdisciplinary complements to such concentrations as literature, history, the social and physical sciences and fine arts. Courses in Philosophy and Religion may be taken as electives by majors in all departments and schools. Courses under the 300-level may be elected without prerequisite unless otherwise stipulated. All other courses normally demand as prerequisite at least one previous course in the area.

Options for concentration within the department meet various needs, with major

in either Philosophy or Religion-and-Philosophy as preparation for graduate or professional work. The specifically required courses and the minimum number and distribution of departmental electives for these majors are indicated below. Academic Minors (18 semester hours) are offered in either Philosophy or Religion. The student may, of course, elect additional courses in the department beyond the number required.

Philosophy Major

	semester hours
I. Fields of Philosophy (200 level)	15
II. History and Movements	
1509-0326 Ancient Philosophy	3
1059-0328 Descartes to Kant	3
Electives (History & Movements: 300 level)	9
II. Seminar in Philosophy (Choose 1)	
1509-0424, 0425, 0426, or 0427	3
	<hr/> REQUIRED TOTAL
	33

Religion and Philosophy Major

	semester hours
A. Religious Traditions and Literatures	
1510-0100 Religions of the World	3
Area Elective (See list below)	3
B. Religious Thought and Philosophy	
1510-0235, 0236 Philosophical Backgrounds, I, II	6
C. Religion, Cultures and Society	
Area Elective (See list below)	6
D. Seminar in Religious Studies	
(1500-0429, 0459, 0489 or 0490)	3
Free Electives in Religious Studies	12
	<hr/> REQUIRED TOTAL
	33

Area Electives in Religious Studies

For the convenience of majors, the following table lists the numbers of the courses that apply to each area. For full details see "Religion Course Descriptions."

A. Religious Traditions and Literatures	
1510-0100, 0115, 0200, 0205, 0210, 0215, 0220, 0225, 0310, 0315, 0320, 0329, 0429	
B. Religious Thought and Philosophy	
1510-0130, 0230, 0235, 0236, 0240, 0245, 0250, 0253, 0255, 0340, 0345, 0350, 0359, 0459	
C. Religion, Cultures and Society	
1510-0260, 0265, 0270, 0275, 0280, 0281, 0375, 0389, 0489	

Minor in Philosophy

	semester hours
Introduction to Philosophy (1509-0100, optional)	0- 3
Fields of Philosophy (200-level)*	6-12
History and Movements in Philosophy (300-level)*	6-12
	<hr/> REQUIRED TOTAL
	18

* Department recommends that the student consult with an advisor in the Department in choosing his electives for the minor in order that he may arrive at the selection most consistent with his overall educational plans and needs.

Minor in Religion

Introduction to Religion (1510-0100)	3
Seminar (1510-0490, 0491, 0492 or 0493)	3
Electives in Religion (1510)*	12
	—
	REQUIRED TOTAL 18

PHILOSOPHY COURSES**1509-0096 Selected Topics in Philosophy: Methods of Inquiry**

Topics announced each semester.

3 s.h.

1509-0097 Selected Topics in Philosophy: Interdisciplinary Studies

Topics announced each semester.

3 s.h.

1509-0098 Selected Topics in Philosophy: Public Issues and Social Action

Topics announced each semester.

3 s.h.

1509-0099 Selected Topics in Philosophy: Modes of Expression

Topics announced each semester.

3 s.h.

1509-0100 Introduction to Philosophy

The nature, scope, methods, basic problems and major types of philosophy.

3 s.h.

1509-0105 History of Philosophy: An Introduction

Major issues, movements and thinkers in the development of philosophy in the West.

3 s.h.

1509-0202 Logic

The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic.

3 s.h.

1509-0203 Ethics

The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories.

3 s.h.

1509-0204 Social and Political Philosophy

The nature of society and the state, their relation to each other and to the individual and an evaluation of some main political and social ideals.

3 s.h.

1509-0206 Contemporary Aesthetics

The function of art in human experience: the nature of aesthetic meaning, value, creation and enjoyment.

3 s.h.

1509-0210 Theories of Knowledge and Experience

The major issues and theories concerning the relationship between knowledge, experience and reality.

3 s.h.

Prerequisite: One course in Philosophy.

1509-0220 Metaphysics

An examination through selected readings of major philosophical theories concerning the nature of reality.

3 s.

Prerequisite: One course in Philosophy.

1509-0290, 0291, 0292, 0293 Fields of Philosophy: Selected Topics

Topics announced each semester.

3 s.

1509-0326 Ancient Philosophy

The major philosophical systems and movements from the Pre-Socratics to Plotinus with special emphasis on Plato and Aristotle.

3 s.

*The Department recommends that the student consult with an advisor in the Department in choosing electives for the minor in order that he may arrive at the selection most consistent with his own educational plans and needs.

1509-0327 Medieval Philosophy

The development of philosophy from Augustine to Ockham. 3 s.h.

1509-0328 Descartes to Kant

The major philosophical systems and movements from the Renaissance to Kant. 3 s.h.

1509-0329 Nineteenth Century Philosophy

The major philosophical systems and movements of the Nineteenth century. 3 s.h.

1509-0330 American Philosophy

The major American philosophers and philosophical movements with emphasis on Peirce, James, Royce, and Dewey. 3 s.h.

509-0335 Contemporary Philosophers

The major movements in contemporary philosophy, studied through writings of leading exponents. 3 s.h.

509-0336 Existentialism

The major themes and concepts of Existentialism in selected writings of the existentialist philosophers. 3 s.h.

509-0337 Analytic Philosophy

The development of the analytic tradition in twentieth century philosophy; the logical and linguistic techniques employed. 3 s.h.

509-0340 Oriental Philosophy

Philosophical interpretations of experience and reality in representative movements of eastern thought. 3 s.h.

109-0390, 0391, 0392, 0393 Periods and Movements: Selected Topics

Topics announced each semester. 3 s.h.

09-0424, 0425, 0426, 0427 Seminar in Philosophy

Cooperative research seminars in major movements, problems, philosophers or works. Topic announced each semester. Permission of instructor required. 3 s.h.

109-0447, 0448, 0449, 0450 Independent Study in Philosophy

Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours in philosophy. 3-12 s.h.

RELIGION COURSES

10-0096 Selected Topics in Religious Studies: Methods of Inquiry

Topics announced each semester. 3 s.h.

10-0097 Selected Topics in Religious Studies: Interdisciplinary Studies

Topics announced each semester. 3 s.h.

10-0098 Selected Topics in Religious Studies: Public Issues and Social Action

Topics announced each semester. 3 s.h.

10-0099 Selected Topics in Religious Studies: Modes of Expression

Topics announced each semester. 3 s.h.

10-0100 Religions of the World: An Introduction

The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness. 3 s.h.

10-0115 Sacred Literature

Sacred literature of major living world religions. 3 s.h.

10-0130 Introduction to Religion

Inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment. 3 s.h.

1510-0200 Primitive Religions and Comparative Mythologies

A study of primitive, archaic and folk religions in their ritual practices and religious myths, and of world religions through the mythological motifs which they share with archaic religions.

3 s.h.

1510-0205 Oriental Religions

The cultural and theological bases for the faith and practice of major Eastern religions—Buddhism, Confucianism, Hinduism, Taoism.

3 s.h.

1510-0210 History of Western Religion

The theological and ecclesiastical developments of the major living religions of the Western World; emphasis on Judaism and Christianity.

3 s.h.

1510-0215 Old Testament (Jewish Scriptures)

The evolution of the ancient Hebrew world-view as developed through the Bible in response to historical events and ongoing religious experience of the people of Israel.

3 s.h.

1510-0220 New Testament (Christian Scriptures)

The evolution of the Christian Scriptures from the gospels through the history of the early church, with emphasis on themes of major shapers of Christian faith.

3 s.h.

1510-0225 Islamic Religious Traditions

The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world.

3 s.h.

1510-0230 Oriental Philosophy

(See description for Philosophy course 1509-0340).

1510-0235 Philosophical Backgrounds of Western Religion I

The inter-relationships of Western religion with philosophy from the Presocratics through the Middle Ages; the emergence of classical fields of philosophy.

3 s.

1510-0236 Philosophical Backgrounds of Western Religion II

The inter-relationship of Western religion with philosophy in the Renaissance, Enlightenment and modern period; the emergence of the autonomous spirit of criticism.

3 s.

1510-0240 Contemporary Religious Thought

The current trends and issues in religious thought as developed in the writings of contemporary theologians.

3 s.

1510-0245 Religious Language and Experience

Contemporary philosophical investigations of the nature and function of religious discourse in the context of religious experience and belief.

3 s.

1510-0250 Systematic Theology

The major doctrines of creative faith in the Judaeo-Christian tradition.

3 s.

1510-0253 Ethics

(See description for Philosophy course 1509-0203)

1510-0255 Social and Political Philosophy

(See description for Philosophy course 1509-0204)

1510-0260 Religion in America

The growth and development of various religious movements—Protestant, Catholic, Jewish, and Sectarian minorities—from Colonial times to the present.

3 s.

1510-0265 Contemporary Religious Ethics

Ethical issues as currently discussed by representative thinkers of the major Western religious traditions.

3 s.

1510-0270 Religion and Social Change

The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development. 3 s.h.

1510-0275 Religion and Culture

The interrelation of religion and culture in the formulation of human values and views, life-styles and institutions. 3 s.h.

1510-0280 Religion and Psychology I

The views of religious man reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian; implications of psychology for critical religious thought. 3 s.h.

1510-0281 Religion and Psychology II

Selected psychological investigations and/or theories of religious phenomena; the implications for specific and constructive religious thought. 3 s.h.

1510-0310 Religious Thought in the Biblical Period

The origin and development of the major motifs of Western religious thought in the Jewish and Christian Scriptures in the light of contemporary Biblical scholarship. 3 s.h.

1510-0315 Early Jewish and Christian Thought

The Jewish and Christian foundations of western religious thought from the second to the fifth centuries of the Common Era. 3 s.h.

1510-0320 Medieval and Reformation Religious Thought

Major movements and thinkers within Judaism, Islam and the various branches of Christianity, from Augustine to the Counter-Reformation. 3 s.h.

1510-0329 Selected Study in World Religions

Topics announced each semester. 3 s.h.

510-0340 Religion and Modern Critical Thought: 1600-1900

The origin and development of the religious spirit, in the light of modern critical thought, from the rise of science to the end of the nineteenth century. 3 s.h.

510-0345 Modern Jewish Religious Thought

Contemporary Judaism studied against the background of 19th and early 20th century Jewish thought. 3 s.h.

510-0350 Historical Thought in Christian Theology: 1900-1945

The impact of modern historical thought on Christian faith; its critical expression in major theologians of the twentieth century. 3 s.h.

510-0359 Selected Study in Religious Thought

Topics announced each semester. 3 s.h.

510-0375 Heresy and Heterodoxy

Movements such as Gnosticism, mysticism and sectarianism studied in their relationship to the dominant orthodoxy, how they have been labeled heresies and have functioned within a "little tradition" of their own. 3 s.h.

510-0389 Selected Study in Religion and Culture

Topics announced each semester. 3 s.h.

510-0390 Selected Study in Religion

Topics announced each semester. 3 s.h.

510-0397, 0398 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion. 3 s.h.

1510-0429, 0459, 0489, 0490 Seminars in Religious Studies

Cooperative research seminars in areas, major movements, problems, theologians or works. Topic announced each semester. Permission of instructor required. 0429 Seminar in World Religion; 0459 Seminar in Religious Thought; 0489 Seminar in Religion and Culture; 0490 Seminar in Religion. 3 s.h.

1510-0497, 0498 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion. 3 s.h.

Department of Spanish and Italian

Professors: Fulton, Chairman; Glantz, Possiedi

Associate Professors: Rambaldo, Susi

Assistant Professors: Barbeito, Battista, Bollettino, Garfield, Hwang, Levine, Minc, Prieto, Zahner

Instructors: Bove, Engelbert, Fink, McCormick, Milszyn, Santos, Valdovinos

The Department of Spanish and Italian develops sound scholarship by providing the student with linguistic fluency and awareness and understanding of Italian art and Hispanic cultures through the study of their languages, literatures and cultural histories.

Majors in Italian or Spanish choose an area of concentration in Italian language, literature and culture; the Spanish language; Peninsular Spanish literature and culture; or Spanish-American literature and culture.

Departmental majors are urged to spend a year, a semester or a summer studying in Italy or a Spanish-speaking country. This study should be planned for the junior year; students must obtain the permission of the department chairman. Upon returning to the college they must present a transcript from the institution abroad with a minimum grade equivalent to a C in all courses submitted for credit. The departmental Committee for Study Abroad will make arrangements regarding institution, courses, credit and final evaluation.

Non-majors in the department are also encouraged to participate in the Study Abroad program on a limited basis.

Majors who intend to pursue graduate studies are urged to acquire proficiency in at least one additional Romance language and to take the Graduate Record Examinations in their senior year.

Students may also elect 18-hour minors in Italian or Spanish, 24-hour second teaching fields in Italian or Spanish, and a 24-hour interdisciplinary minor in Spanish Community Affairs.

Required for all Spanish and Italian Majors:

1505-0210 Introduction to General Linguistics	semester hours
---	----------------

1505-0210 Introduction to General Linguistics	3
---	---

Spanish Major

I. Requirements: 18 hours		semester hours
1105-0141 Spanish Grammar and Composition .....		.....
1105-0151 Spanish Literature of the 19th and 20th Centuries .....		.....
1105-0252 Spanish-American Literature since 1800 .....		.....
1105-0260 Spanish Cultural History .....		.....
1105-0270 Spanish-American Cultural History .....		.....
1105-0310 Advanced Composition .....		.....
II. Electives: 15 hours from the following Language		
1105-0209 Introduction to Spanish Phonetics		
1105-0309 Intensive Practice in the Spoken Language		
1105-0350, 0351 Translating I, II		3 ea
1105-0445 Evolution of the Spanish Language		
1105-0410 Spanish Grammar for Teachers		

Peninsular Spanish Literature

1105-0152	The Middle Ages to the 18th Century	3
1105-0255	Spanish Poetry from its Origins to the Present	3
1105-0460	El Quijote	3
1105-0369	The Drama of the Golden Age	3
1105-0372	Spanish Prose of the 19th Century	3
1105-0371	Spanish Poetry and Drama of the 19th Century	3
1105-0365	Spanish Novel of the 20th Century	3
1105-0465	Spanish Theater of the 20th Century	3

Spanish-American Literature

1105-0251	Spanish-American Literature to 1800	3
1105-0265	The Spanish-American Novel	3
1105-0367	Spanish-American Essayists	3
1105-0368	Contemporary Spanish-American Short Story	3
1105-0466	Contemporary Spanish-American Theater	3
1105-0471	Contemporary Trends in the Spanish-American Novel	3
1105-0472	Puerto Rican Literature and Thought	3

Additional electives

1105-0221	Commercial Spanish	3
1105-0360	Spanish Community Program	3
1105-0375	Study Abroad	Credit by evaluation
1105-0470	Senior Seminar	3
1105-0475	Seminar on Spanish Culture in the U.S.	3
1105-0480	Independent Study	3

REQUIRED TOTAL 33

TEACHER CERTIFICATION

Students who desire teacher certification must elect the following courses

1105-0209	Introduction to Spanish Phonetics	3
1105-0419	The Teaching of Spanish in Secondary Schools	3
1105-0410	Spanish Grammar: Applied Linguistics	3

SECOND TEACHING FIELD IN SPANISH

1105-0141	Spanish Grammar and Composition	3
1105-0209	Introduction to Phonetics	3
1105-0309	Intensive Practice in the Spoken Language	3
1105-0410	Spanish Grammar for Teachers	3
1105-0310	Advanced Composition	3
1105-0260	Spanish Cultural History, or	3
1105-0270	Spanish-American Cultural History	3

REQUIRED TOTAL 18

Electives in Literature courses:	6
----------------------------------	-------	---

REQUIRED TOTAL FOR SECOND FIELD 24

Additional requirement

If the student has not studied a teaching methods course in a foreign language, he must elect, in addition, 1105-0419, The Teaching of Spanish in Secondary Schools (3 s.h.).

Minor in Spanish

1105-0141	Grammar and Composition	3
1105-0151	19th & 20th Century Spanish Literature, OR	3
1105-0252	Spanish-American Literature Since 1800	3
1105-0260	Spanish Cultural History, OR	3
1105-0270	Spanish-American Cultural History	3

1105-0310	Advanced Composition	3
1105-	Literature Electives	6
REQUIRED TOTAL 18		

Minor in Spanish Community Affairs

		semester hours
Required courses:	Education: 0821-0441	Urban Politics and Education, or
	0821-0440	Sociological Foundations of Education . 3
Psychology:	2001-0280	Introduction to Community Psychology, or
	2001-0335	Social Psychology
Sociology:	2208-0311	Urban Sociology, or
	2208-0341	Sociology of Poverty and Welfare 3
Spanish:	1105-0472	Puerto Rican Literature and Thought ... 3
Specialization: One of the four areas listed below dealing with the Spanish Community:		
Education:	0821-0425	Puerto Rican Children in Mainland Schools
Psychology:	2001-0380	Psychology and Community Services .. 3
Sociology:	2208-0414	Urban Puerto Rican Community
Spanish:	1105-0475	Seminar on Spanish Culture in the U.S. ... 3

Field Work: A minimum of two semesters, earning a total of 9 semester hours credit. The student may elect two units of field work in one semester or one unit for each of three semesters.

1105-0481	Field Work I	3
1105-0482	Field Work II	3
1105-0483	Field Work III	3

REQUIRED TOTAL 24

Students who are not bilingual will be accepted into the program with the understanding that before going into field work or electing Spanish courses they will become proficient in the Spanish language. For this purpose there are intensive training courses in the Spanish department: 1105-0120, 0140, 0209 and 0309.

SPANISH COURSE DESCRIPTIONS

1105-0101 and 0112 Beginning Spanish

For students with no previous Spanish. Training in understanding, speaking and writing the language. 3 s.t.

Prerequisite: Spanish 0101 or equivalent for Spanish 0112.

1105-0120 Comprehensive Review of Beginning Spanish

For students who have studied one or two years of high school Spanish and who score below 450 on College Board Achievement Test. Basically the first year course telescoped into one semester. 3 s.t.

1105-0121 and 0132 Intermediate Spanish

A continuation of the Beginning Spanish courses to strengthen the four language skills. Prerequisites: Spanish 0112 or 0120 or equivalent for 0121; Spanish 0121 or equivalent for 0132. 3 s.

1105-0140 Comprehensive Review of Intermediate Spanish

For students with three or four years of high school Spanish with scores between 50 and 600 on College Board Achievement Test. Basically the two intermediate courses telescoped into one semester. 3 s.

1105-0141 Spanish Grammar and Composition

For an active command of the language by means of oral and written exercises, and a thorough review of grammar, vocabulary and idioms. Required for all majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

1105-0151 Spanish Literature of the 19th and 20th Centuries

Survey course; representative works of the 19th and 20th centuries. Class discussions lead to analysis of literary works. Required for majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

1105-0152 Spanish Literature from the Middle Ages to the 18th Century

Survey Course; representative works from the Middle Ages to the 18th century. 3 s.h.
Prerequisite: Spanish 0260 or equivalent.

1105-0209 Introduction to Spanish Phonetics

Spanish phonetics and phonemics: theory and practice; comparative analysis of Spanish and English phonology. The language laboratory is used extensively. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

1105-0221 Commercial Spanish

For students interested in the business field: styles of letter writing, vocabulary peculiar to business, legal terminology. Emphasis on written fluency and expression. 3 s.h.
Prerequisite: Spanish 0141 or equivalent.

1105-0251 Spanish-American Literature to 1800

A study of Spanish-American literature from its colonial origins to the latter part of the 19th century. 3 s.h.
Prerequisite: Spanish 0270 or equivalent.

1105-0252 Spanish-American Literature since 1800

3 s.h.

Spanish-American literature from 1880 to the contemporary period. Required for majors.
Prerequisite: Spanish 0132 or 0140 or equivalent.

105-0255 Spanish Poetry from its Origins to the Present

versification and poetic language and forms, with emphasis on the literary movements of peninsular Spain. 3 s.h.
Prerequisite: Spanish 0260 or equivalent.

105-0260 Spanish Cultural History

The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

105-0265 The Spanish-American Novel

Development of the Spanish-American novel up to 1945. 3 s.h.
Prerequisites: Spanish 0141 and 0252 or equivalent.

105-0270 Spanish-American Cultural History

Development of the politics art and philosophy of the Spanish-speaking nations of the Western Hemisphere. Required for majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

05-0309 Intensive Practice in the Spoken Language

Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events; gives a competence in Spanish as an instrument of oral expression. Classes limited to ten students. 3 s.h.
Prerequisite: Spanish 0141 or equivalent.

05-0310 Advanced Composition

To improve the student's mastery of the language through written and oral exercises, review of advanced grammar. Required for majors. 3 s.h.
Prerequisite: Spanish 0141 or equivalent.

1105-0350 and 0351 Translating I and II

Techniques of translating Spanish-English, English-Spanish. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.

Prerequisite: Spanish 0141 and 0310.

3 s.h. ea.

1105-0360 Spanish Community Program

Interdisciplinary approach to field work in underprivileged area of the Spanish-speaking communities in New Jersey. Open to anyone in the College with working knowledge of Spanish. 9 semester hours will be given by the Spanish Department and two other departments selected by the student.

3 s.h.

Prerequisite: Previous consultation with instructor.

1105-0365 Spanish Novel of the 20th Century

The modern novel in Spain beginning with the **Generación del '98**.

3 s.h.

Prerequisite: Spanish 0151 or equivalent.

1105-0367 Spanish-American Essayists

The role of the essay in Spanish-American life and culture. Studies of selected modern essayists.

3 s.h.

Prerequisite: Spanish 0252 or equivalent.

1105-0368 Contemporary Spanish-American Short Story

Trends in the contemporary short story; the short story as an important genre in Spanish-American letters.

3 s.h.

Prerequisite: Spanish 0252 or equivalent.

1105-0369 The Drama of the Golden Age

Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca.

3 s.h.

Prerequisite: Spanish 0260 or equivalent.

1105-0370 Contemporary Spanish-American Poetry

Leading 20th century poets beginning with Darió, with a special emphasis on Modernismo.

3 s.h.

Prerequisites: Spanish 0252 or equivalent.

1105-0371 Spanish Poetry and Drama of the 19th Century

A critical study of the main works of this century from the Duque de Rivas and Espronceda to Echegaray and Galdós.

3 s.h.

Prerequisite: Spanish 0151 or equivalent.

1105-0372 Spanish Prose of the 19th Century

The main works in Romanticism, Realism and Naturalism in 19th century Spain.

3 s.h.

Prerequisite: Spanish 0151 or equivalent.

1105-0375 Study Abroad

Credit by evaluation

Study at a University in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of an Hispanic country.

Prerequisites: Permission of department chairman.

1105-0410 Spanish Grammar for Teachers

Structural features of Spanish; areas of interference with English structure which present the greatest difficulties to the student of Spanish.

3 s.

Prerequisites: Spanish 0310 or equivalent, Seniors only.

1105-0419 The Teaching of Spanish in Secondary Schools

Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. Prerequisite: Senior standing.

3 s.

1105-0445 The Evolution of the Spanish Language

The development of the Spanish language from its origin to the present day, within the framework of other neo-Latin languages, the phonological and structural changes which occurred through historical development.

3 s.h.

Prerequisite: Spanish 0310 or equivalent.

1105-0460 El Quijote

The literary and social background, structure, themes and style of **El Quijote** as a masterpiece.

3 s.h.

Prerequisite: Spanish 0260 or equivalent.

1105-0465 Spanish Theater of the 20th Century

Principal trends of the Spanish theater from Benavente to the contemporary dramatists.

3 s.h.

Prerequisite: Spanish 0151.

1105-0466 Contemporary Spanish-American Theater

The principal movements of the theater in Spanish America in the 20th century.

3 s.h.

Prerequisite: Spanish 0252.

1105-0470 Senior Seminar

Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.

3 s.h.

Prerequisite: Senior majors only. Permission of instructor required.

1105-0471 Contemporary Trends in the Spanish-American Novel

3 s.h.

The contemporary novel in Spanish America, with emphasis on the *neuva novela*.

Prerequisites: Spanish 0252 or equivalent.

105-0472 Puerto Rican Literature and Thought

Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas.

3 s.h.

Prerequisite: Spanish 0252.

105-0475 Seminar on Spanish Culture in the U.S.

A study of the Hispanic cultures and their adaptation culturally and linguistically to the U.S., considering especially Puerto Ricans, Chicanos and other minority groups.

3 s.h.

Prerequisites: Spanish 0472 and permission of instructor.

105-0480 Independent Study

Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.

3 s.h.

Prerequisites: 24 hours of major Spanish credits.

PORtUGUESE COURSE DESCRIPTIONS**25-0101 and 0112 Beginning Portuguese**

For students with no previous study of Portuguese; training students to understand, speak, read and write the language.

3 s.h. ea.

Prerequisite: Portuguese 0101 or equivalent for 0112.

125-0121 and 0132 Intermediate Portuguese

Strengthening basic language skills, as established in the beginning courses, through more advanced grammar and selected readings. Prerequisites: Portuguese 0112 or equivalent for 0121, and Portuguese 0121 or equivalent for 0132.

3 s.h. ea.

Italian Major

Requirements	semester hours
1104-0141 Italian Grammar and Composition	3
1104-0310 Advanced Composition	3
1104-0151 Studies in Italian Literature: 18th through 20th Centuries	3
1104-0152 Studies in Italian Literature: Origins to 18th Century	3

II. Electives: 21 semester hours from		
1104-0251, 0252 Italian Literature of the Renaissance	6	6
1104-0309 Intensive Practice in the Spoken Language	3	3
1104-0351, 0352 Italian Literature of the 20th Century	6	6
1104-0361, 0362 Italian Literature of the 19th Century	6	6
1104-0371 Italian Literature of the 13th and 14th Centuries	3	3
1104-0375 Independent Study	3	3
1104-0377 Italian Literature of the 18th Century	3	3
1104-0410 Italian Grammar for Teachers	3	3
1104-0462 Dante Seminar	3	3
1104-0470 Senior Seminar	3	3
1104-0478 Study Abroad	Credit by evaluation	

REQUIRED TOTAL 33

Minor in Italian

1104-0141 Grammar and Composition	3	3
1104-0151 Italian Literature, 18th through 20th Centuries	3	3
1104-0152 Italian Literature, Origins to 18th Century	3	3
1104-0310 Advanced Composition	3	3
1104- Electives in Italian Literature	6	11

REQUIRED TOTAL 18

TEACHER CERTIFICATION

Students who desire teacher certification must elect the following courses

1104-0309 Intensive Practice in the Spoken Language	3	3
1104-0410 Italian Grammar for Teachers	3	3
1104-0419 The Teaching of Italian in Secondary Schools	3	3

SECOND TEACHING FIELD IN ITALIAN

1104-0141 Italian Grammar and Composition	3	3
1104-0151 Studies in Italian Literature: 18th through 20th Centuries	3	3
1104-0152 Studies in Italian Literature: Origins to 18th Century	3	3
1104-0309 Intensive Practice in the Spoken Language	3	3
1104-0310 Advanced Composition	3	3
1104-0410 Italian Grammar for Teachers	3	3
1104- Electives in Italian Literature	6	11

REQUIRED TOTAL FOR SECOND FIELD

Additional requirements:

If the student has not studied a teaching methods course in a foreign language, he must elect, in addition, 1104-0419, The Teaching of Italian in Secondary Schools (3 s.h.).

ITALIAN COURSE DESCRIPTIONS**1104-0101 and 0112 Beginning Italian**

For students with no previous knowledge of Italian; imparting the basic foundations of the language. 3 s.h.

Prerequisite: Italian 0101 or equivalent for 0112.

1104-0121 and 0132 Intermediate Italian

A continuation of the beginning courses to strengthen the four language skills through grammar and selected readings. 3 s.h.

Prerequisites: Italian 0112 or equivalent for 0121, and Italian 0121 or equivalent for 0132.

1104-0141 Italian Grammar and Composition

Gives students better control of the structure of the language through written and oral practice. Required for majors.
Prerequisite: Italian 0132 or equivalent.

3 s.h.

1104-0151 Studies in Italian Literature: 18th through 20th Centuries

Representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of literary works. Required for majors. Prerequisite: Italian 0132 or equivalent.

3 s.h.

104-0152 Studies in Italian Literature: Origins to 18th Century

Representative works from the **Scuola Siciliana** to the 18th century analyzed and discussed. Required for majors.
Prerequisite: Italian 0132 or equivalent.

3 s.h.

104-0251 and 0252 Italian Literature of the Renaissance

The development of Humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries.

251 – Emphasis on Petrarch: **Canzoniere**, **Secretum**, **Tionfi**, and Boccaccio: **Decameron**.

252 – Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Machiavelli and others.

104-0309 Intensive Practice in the Spoken Language

Practice in spoken Italian through assigned topics and discussions about daily life and world events; an opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.

3 s.h.

Prerequisite: Italian 0132 or equivalent.

04-0310 Advanced Composition

Mastery of the language through written and oral exercises; review of advanced grammar. Required for majors.

3 s.h.

Prerequisite: Italian 0132 or equivalent.

104-0351 and 0352 Italian Literature of the 20th Century

Particular attention to the contemporary period.

551 – Pirandello: **Novelle per un anno**, **Così è; Sei personaggi in cerca d'autore**. Saba: **Canzoniere**. Ungaretti: **L'Allegria**, **Sentimento del Tempo**. Montale: **Ossi di Seppia**. Quasimodo: **Ed e'subito sera**.

552 – Pavese: **La Luna e i falò**. Moravia: **Agostino**, **Racconti romani**. Silone: **Pane e no**. Vittorini: **Conversazioni in Sicilia**, and others.

3 s.h. ea.

Prerequisite: Italian 0151 or equivalent.

104-0361 and 0362 Italian Literature of the 19th Century

Neo-classicism, Romanticism, and **Verismo**.

631 – Foscolo: **Sonetti**, **Sepolcri**, **Ultime Lettere di Jacopo Ortis**. Manzoni: **Inni Sacri**, **Comessi Sposi**. Leopardi: **Canti**, **Operette Morali**.

632 – Carducci: **Rime Nuove**, **Odi Barbare**, **Rime**. Pascoli: **Odi e Inni Myricae**. Verga: **Novelle Rusticane**. D'Annunzio: **Laudi**, **Novelle della Pescara**.

3 s.h. ea.

Prerequisite: Italian 0151 or equivalent.

14-0371 Italian Literature of the 13th and 14th Centuries

The most important representatives of the Sicilian and Tuscan schools, with particular attention to the **Dolce Stil Novo** and the works of Dante.

3 s.h.

Prerequisite: Italian 0152 or equivalent.

14-0377 Italian Literature of the 18th Century

The most important representatives of this Century. Goldini: "Memoires" e la riforma della **Commedia**, **Bottega del caffé**, **La moglie saggia**, **Il Vero Amico**, **La Locandiera**.

3 s.h.

Parini: **Giorno**, **Odi**. Alfieri: **Rime**, **Saul**, **Mirra**, **Il Divorzio**.

Prerequisite: Italian 0151 or equivalent.

1104-0410 Italian Grammar for Teachers

Structural features of Italian; areas of interference with English structure which present the greatest difficulties to the student of Italian. 3 s.h.

Prerequisite: Italian 0310 or equivalent.

1104-0419 The Teaching of Italian in Secondary Schools

Aims, objectives, and methods of teaching Italian in secondary schools; textbooks, supplementary teaching material, the language laboratory, tests, etc. 3 s.h.

Prerequisite: Senior standing.

1104-0462 Dante Seminar

Medieval thought as represented in Dante's works. A selection of readings from *Vita Nova*, *De Vulgari Eloquentia*, *Convivum*, and *Divina Commedia* read and analyzed. 3 s.h.

Prerequisite: Italian 0152 or equivalent.

1104-0470 Senior Seminar

The techniques of literary research based on selected topics from Italian literature.

Prerequisite: Senior majors only.

3 s.h.

1104-0478 Study Abroad

Study at an Italian university; opportunity to gain first-hand knowledge of the historical social, economic and cultural life of Italy. Credit by evaluation

Prerequisite: Permission of department chairman.

1104-0480 Independent Study

Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of Italian electives. 3 s.h.

Prerequisites: 24 hours of major Italian credits.

Humanities Elective Courses

4903-0276 The Golden Age (in English)

Major dramatists of the peninsular Spanish Golden Age; Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderón de la Barca. 3 s.l.

4903-0278 Spanish Literature of the 20th Century

Major novelists and dramatists of the 20th century in Spain, from the Generation of '98 to the contemporary authors. 3 s.

4903-0280 20th Century Italian Literature

Selected writers illustrating the main currents of 20th century Italian literature: Pirandello, Ungaretti, Montale, Pavese, Betti, Vittorini, Silone, Moravia and others. 3 s.

4903-0376 Spanish-American Short Story

Trends in the modern short story in Spanish America and its importance as a genre in the literary life of Spanish America. 3 s.

4903-0378 Modern Spanish-American Novel

Development of the novel in Spanish America in the 20th century. Readings and discussion of representative works. 3 s.

4903-0379 Dante

A critical study of Dante, considering especially *The Divine Comedy* and other selected works in their medieval context. 3 s.

4903-0380 Italian Humanism and Renaissance

The works of Petrarch, Boccaccio and Machiavelli, and a secondary consideration of works of other authors of the Renaissance. 3 s.

School of Mathematics and Science

Thomas L. Wilson, Ph.D., Dean

Authorized by the Board of Trustees in the spring of 1969, the School of Mathematics and Science became operative in September, 1970. It includes the departments of biology, chemistry, mathematics and physics-geoscience; it offers basic arts and sciences programs in these fields and continues outstanding teacher preparation programs in the same areas.

The School offers a number of pre-professional programs. The biology major with collateral courses in other sciences and mathematics provides a premedical program acceptable to most medical schools. This major program also provides the prerequisites for programs in dentistry, laboratory technology and other allied health fields.

A special asset of the School is its location in Northern New Jersey, which has one of the largest concentrations of the scientific research community in the country. Liaison with industry and scientific professional organizations in the area provides the School with unusual resources and opportunities for independent study.

The School has as part of its governance structure, a faculty-student Senate, which determines policy in the areas of personnel, curriculum, growth areas and relationships with other schools in the college.

The School is located in Finley and Mallory Halls, as well as in the recently completed mathematics-physical science center. The new structure provides classrooms, laboratories, a computer facility and individual laboratory carrel space for students and faculty in the fields of chemistry, mathematics and physics. Funds are available and plans are being completed for expansion of the biology and geoscience facilities to include laboratory space for cellular biology, microbiology, geology, etc. Instrumentation facilities and laboratory carrels will also be provided.

The College is a charter member of the New Jersey Marine Sciences Consortium. Certain of the courses listed in the departments of biology and physics-geoscience are given at the facilities of the Consortium. Where this is true, it has been so noted in the description.

General Education Requirements for the School of Mathematics and Science Common Core: Identical to those of the College as a whole regardless of the degree program pursued. See page 26

School-Planned Core: Identical for all students of the School, regardless of the degree program pursued. From at least 4 of the areas below, select no less than 3 nor more than 3 semester hours (no more than 12 semester hours in the School of Mathematics and Science):

Language and Linguistics	Social Sciences
Nature	Behavioral Sciences
Mathematics	History
Sciences	Philosophy-Religion
Social Sciences	Art*
Allied or performance courses do not apply	Music*

Department of Biology

Professors: Kuhnen, Chairman: Daniels, Koditschek

Associate Professors: Arny, Asterita, Kane, Shuback

Assistant Professors: Cribben, Gona, Hoadley, Kelly, L. Koepp, S. Koepp, McCormick, Pai, Sawits, Shillcock, Sichuk

Major course requirements with the proper selection of elective courses will enable a student to prepare for graduate work in the major field, or will serve as a pre-professional program for medicine, dentistry, medical technology and other biology-

related fields. The student preferring certification to teach biology can obtain it by fulfilling the "Professional Sequence."

Freshman courses offered for the biology majors assume that the student has been exposed to biology, chemistry and physics, and at least three years of college preparatory mathematics in high school.

Biology Major

I. Biology Requirements

	semester hour
*0401-0140 The Biology of the Cell	4
0401-0121 The Plant Kingdom	4
0401-0130 Invertebrate Zoology	4
0401-0131 Vertebrate Zoology	4
0401-0412 Genetics	4

*Those planning on entering the Teacher Certification program must take instead 0401:120 Plant Form and Function 4 s.h.

II. Collateral Requirement: 30 semester hours from

1905-0120, 0121 General Chemistry I-II	4	e
1905-0230, 0231 Organic Chemistry I-II	3	e
1905-0232 Experimental Organic Chemistry I	4	e
1902-0103, 0104 College Physics I-II	4	e
6 Semester Hours selected from:		
1701-0115 Introductory Mathematical Analysis	3	e
1701-0116-0215-0216 Calculus A, B, C	3	e
1701-0117, 0118 Mathematics for Biological Sciences I-II	3	e

REQUIRED TOTAL

III. Electives: 14-15 semester hours from

0401-0213 Introduction to Field Biology	2	e
0401-0300 Environmental Biology and Related Controversial Issues	3	e
0401-0310 Evolution	3	e
0401-0330 Introduction to Animal Behavior	4	e
0401-0340 Endocrinology	3	e
0401-0350 Elementary Microbiology	4	e
0401-0409 Field Experience in Current Laboratory Research	4	e
0401-0410 Biological Science Demonstrations	4	e
0401-0411 Introduction to Electron Microscopy	4	e
0401-0413 Field Studies in Sciences: Biology	2	e
0401-0414 Problems in Field Studies in Biology	2	e
0401-0417 Research Seminar in Biological Literature	2	e
0401-0418 Biology Independent Study	Credit by Arrangement	e
0401-0419 History and Philosophy of the Life Sciences	2	e
0401-0420 Economic Botany	3	e
0401-0424 Morphology of Flowering Plants	4	e
0401-0425 Elementary Plant Physiology	4	e
0401-0426 New Jersey Flora	4	e
0401-0430 Field Ornithology	3	e
0401-0431 Entomology	3	e
0401-0432 Medical Entomology	2	e
0401-0440 Mammalian Anatomy and Histology	4	e
0401-0441 Comparative Anatomy of the Vertebrates	4	e
0401-0442 Human Physiology	4	e
0401-0443 Comparative Vertebrate Embryology	4	e
0401-0444 Cell Physiology	4	e
0401-0445 Immunology	3	e
0401-0151 Bacterial Physiology	4	e
0401-0460 Biological Oceanography	3	e

0401-0461	Limnology	3
0401-0162	Advanced Marine Biology	4
0401-0463	Marine Invertebrate Zoology	4
0401-0464	Marine Botany	4
0401-0465	Biology of Marine Plankton	4
0401-0467	Marine Ichthyology	4
0499-0000	Techniques	
0499-0401	Field Methods in Oceanography and Marine Biology	1
0499-0402	Plankton Sampling and Analysis	1
0499-0403	Primary Production in the Marine Environment: Techniques & Measurement	
0499-0404	Plant and Animal Histological Techniques	3
1905-0435	Biochemistry	4
1914-0433	Invertebrate Paleontology	4
		—
	REQUIRED TOTAL	34

The electives available permit concentration in a number of areas. See your department faculty advisor for recommendations as to electives most applicable to your field of interest. All elective courses are not offered every year.

Minor in Biology

(Arts and Sciences Programs)

Required Courses

0401-0140	The Biology of the Cell	semester hours
0401-0121	The Plant Kingdom	4
0401-0130	Invertebrate Zoology	4
0401-0131	Vertebrate Zoology	4
0401-0412	Genetics	4
		—
	REQUIRED TOTAL	20

SECOND TEACHING FIELD

Students majoring in another field who desire a certification in Biology in addition to one in their major field must take the following 24 semester hours program:

0401-0120	Plant Form and Function	4
0401-0121	The Plant Kingdom	4
0401-0130	Invertebrate Zoology	4
0401-0131	Vertebrate Zoology	4
0401-0412	Genetics	4
	Biology Elective	4
		—
	REQUIRED TOTAL	24

COURSE DESCRIPTIONS

001-0100 Biological Sciences

Organization and behavior of plants and animals, mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hours lecture, 4 hours laboratory) 4 s.h.

001-0103 and 0104 General Biology I and II

Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (2 hours lecture, 4 hours laboratory) 4 s.h. ea.

0401-0105 College Biology

Introduction to cellular biology, similarities and diversities in the plant and animal world. Problems of human survival. Primarily for Chemistry and Physics majors. (3 hours lecture, 2 hours laboratory) 4 s.h. ea.

0401-0106 Social Behavior of Animals for the Layman

Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors. 2 s.h.

0401-0107 Biology for Survival

Basic concepts of Biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. For non-science majors (3 hours lecture) 3 s.h.

0401-0108 Dietary Pathology for the Layman

Relationship of foods and common functional disabilities. For non-science majors (2 hours lecture) 2 s.h.

0401-0120 Plant Form and Function

Morphology and physiology of the cell and higher plants. (2 hours lecture, 4 hours laboratory) 4 s.h.

0401-0121 The Plant Kingdom

Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hours lecture, 4 hours laboratory) 4 s.h.

0401-0130 Invertebrate Zoology

Form, function, ecology, evolutionary development of the invertebrates. (2 hours lecture, 4 hours laboratory) 4 s.h.

0401-0131 Vertebrate Zoology

Form, function, ecology and evolution of vertebrates. (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0130 Invertebrate Zoology.

0401-0140 Biology of the Cell

Form, function and evolution of cells. (3 hours lecture, 3 hours laboratory) 4 s.h.

0401-0212 Genetics for the Layman

Basic genetic principles and modern molecular genetics and their application to human heredity, medicine, the future of man and our natural world. (2 hours lecture) 2 s.h.

0401-0213 Introduction to Field Biology

Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest. During spring intercession 2 s.h.

0401-0240-0241 Mammalian Anatomy and Physiology I and II

The anatomy and physiology of the human organism. Primarily for sophomore Physical Education majors. (2 hours lecture, 2 hours laboratory) 3 s.h. ea.

0401-0242 Human Biology

Body structure and functions in relation to the maintenance of good health. Not for Biology majors. (2 hours lecture, 2 hours laboratory) 3 s.h.

0401-0250 Applied Microbiology

Microbiological concepts and techniques applicable to food and dairy sanitation, water, air pollution, sewage and other environmental problems. Not for Biology majors. (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: One year of Chemistry or equivalent.

0401-0260 Introduction to Marine Biology

Field and laboratory-oriented course, collecting and identifying local marine flora and fauna. Offered at the N.J. Marine Sciences Consortium during the summer. 4 s.h.
Prerequisite: Two years of high school biology or one course in college biology. Not for biology majors.

0401-0300 Environmental Biology and Related Controversial Issues

Analysis of ecological problems of today: population trends and control, food production, environmental deterioration, waste disposal, etc. (3 hours lecture) 3 s.h.
Prerequisite: 12 semester hours of Biology.

0401-0310 Evolution

Theories of biological variation, species formation and race. (3 hours lecture) 3 s.h.
Prerequisite: Zoology and/or Botany.

0401-0330 Introduction to Animal Behavior

Patterns, underlying mechanisms, ontogeny and phylogeny of animal behavior. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.
Prerequisite: 0401-0130 Invertebrate Zoology and 0131 Vertebrate Zoology plus 4 additional semester hours of Biology.

0401-0340 Endocrinology

Basic physiology of endocrine glands. Relationships among glands and the role of glands in maintaining homeostasis. (Not offered every year.) (3 hours lecture) 3 s.h.
Prerequisite: 12 semester hours of Biology.

0401-0350 Elementary Microbiology

Study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (2 hours lecture, 4 hours laboratory) 4 s.h.
Prerequisite: General Biology, General Chemistry.

0401-0410 Biological Science Demonstrations

Individual and group experiments in demonstrations applicable to the high school laboratory. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.
Prerequisite: 1 year of Biology.

0401-0411 Introduction to Electron Microscopy

asic theory and practice of electron microscopy. Specimen preparation, ultramicroscopy, photographic preparation of final print, interpretation of results.
Prerequisites: 18 hours Biology including Plant and Animal Histological Techniques 499-0404). Permission of instructor.

0401-0412 Genetics

edelian Laws to Molecular Genetics, structure and function of the gene, its transmission, the regulation of gene action and mutation. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.
Prerequisite: 1 year of Chemistry and 0401-0120 or 0140 or its equivalent.

0401-0413 Field Studies in Science: Biological

Identification and natural history of fauna and flora. (Not offered every year.) (2 hours lecture) 2 s.h.
Prerequisite: 1 year of Biology.

0401-0414 Problems in Field Studies in Biology

Sudent will work out a problem in field science. (Not offered every year.) (2 hours lecture) 2 s.h.
Prerequisite: 0410-0413 Field Studies in Science: Biological, or its equivalent, plus at least 12 semester hours of Biology.

0401-0417 Research Seminar in Biological Literature

Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year.) (2 hours lecture) 2 s.h.
 Prerequisite: Open to Biology majors with approval of the Department Chairman.

0401-0418 Biology Independent Study

Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required. (Offered on demand.)
 Prerequisite: Approval by the Department Chairman. Credit by arrangement

0401-0419 History and Philosophy of the Life Sciences

Historical survey of the major trends in the development of scientific thought. (Not offered every year.) (2 hours lecture) 2 s.h.

0401-0420 Economic Botany

Importance of plants to the world in general and to man in particular. (Not offered every year.) (3 hours lecture) 3 s.h.

Prerequisite: 0401-01200 Plant Form and Function or 0121 The Plant Kingdom.

0401-0424 Morphology of Flowering Plants

Structure, evolutionary development and taxonomy of flowering plants with greatest emphasis on variation in floral morphology. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0120 Plant Form and Function or 0121 The Plant Kingdom.

0401-0425 Elementary Plant Physiology

Major physiological processes of the flowering plant: Growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0120 Plant Form and Function, 0121 The Plant Kingdom and 1905-0231 0231 Organic Chemistry I, II.

0401-0426 New Jersey Flora

Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0121. The Plant Kingdom or equivalent.

0401-0430 Field Ornithology

Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hour lecture, 3 hours laboratory) 3 s.h.

Prerequisite: A year of Biology or its equivalent.

0401-0431 Entomology

Identification, physiology and ecology of common insect families. (Not offered every year.) (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: 0401-0130 Invertebrate Zoology and 0131 Vertebrate Zoology.

0401-0432 Medical Entomology

The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year.) (2 hours lecture) 2 s.h.

Prerequisite: 0401-0130 Invertebrate Zoology and/or 0401-0431 Entomology.

0401-0440 Mammalian Anatomy and Histology

Mammalian body systems and their component tissues through dissection of a representative mammal and use of prepared slides. (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0131 Vertebrate Zoology.

0401-0441 Comparative Anatomy of the Vertebrates

Ontogeny and morphology of representative taxa of the Protochordates and Chordata. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0131 Vertebrate Zoology or 0401-0440 Mammalian Anatomy and Histology.

0401-0442 Human Physiology

Functions of animal organs and systems with emphasis on maintenance of homeostasis.
 (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0440 Mammalian Anatomy and Histology or equivalent.

0401-0443 Comparative Vertebrate Embryology

Developmental anatomy of the vertebrates, especially amphibian, chick and human.
 General concepts of development and cell differentiation. (Not offered every year.)
 (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0130, 0131 Invertebrate and Vertebrate Zoology.

0401-0444 Cell Physiology

Advanced course in phenomena in cell function. Individual experimental problems using specialized instrumentation are assigned in the laboratory. Open to Biology majors with approval of instructor. (Not offered every year.) (3 hours lecture, 4 hours laboratory)

Prerequisite: 0401-0442 Human Physiology I-II and 1905-0230 Organic Chemistry. 5 s.h.

401-0445 Immunology

Cellular and humoral immunal responses, immunoglobulins, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year.)
 (3 hours lecture) 3 s.h.

Prerequisite: 20 semester hours of Biology.

401-0451 Bacterial Physiology

Type organisms are examined to demonstrate structure, function, autotrophy, heterotrophy, phototrophy, symbiosis, antibiosis and other ecological phenomena. Laboratory experiments develop advanced techniques. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0401-0350 Elementary Microbiology, 1905-0230-0231 Organic Chemistry I-II, 401-0444 Cell Physiology and/or 1905-0435 Biochemistry.

401-0460 Biological Oceanography

Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.) (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: 0401-0130 Invertebrate Zoology 0401-0121 the Plant Kingdom and one year Chemistry.

01-0461 Limnology

Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.) (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: One year of Chemistry and one year of Biology or permission of instructor.

001-0462 Advanced Marine Biology

Relationships of marine animals and plants. Salinity, temperature, light, oxygen, dissolved substances. Topics also include primary production, symbiosis, predation, energy flow and ecosystem. Field work. Offered at the New Jersey Marine Sciences Consortium. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 1905-0120, 0121 General Chemistry I & II, a year of Biology or permission of the instructor.

001-0463 Marine Invertebrate Zoology

Relationships of marine pelagic and benthonic invertebrates. Also offered at the New Jersey Marine Sciences Consortium. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 0405-0130, 0131 Invertebrate and Vertebrate Zoology or permission of the instructor.

041-0464 Marine Botany

Structure, systematics, physiology and ecology of marine algae and metaphyta of estuary

and tidal marsh. Field work. Also offered at the New Jersey Marine Sciences Consortium. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.
 Prerequisite: 0401-0120 Plant Form and Function and 0401-0120 The Plant Kingdom or permission of the instructor.

0401-0465 Biology of Marine Plankton

Collection, analysis, interpretation of the occurrence of marine plankton. Field trips Also a New Jersey Marine Sciences Consortium. (Not offered every year.) (2 hour lecture, 4 hours laboratory) 4 s.h.
 Prerequisite: 0401-0130 Invertebrate Zoology and 2 additional semester hours of Biology.

0401-0467 Marine Ichthyology

Systematics, adaptations, reproduction, evolution, ecology and zoo-geography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.
 Prerequisite: 0401-0131 Vertebrate Zoology and 0401-0442 Human Physiology.

0499-0401 Field Methods in Oceanography and Marine Biology

Application and techniques of marine samplings. New Jersey Marine Sciences Consortium. 1 s.l.
 Prerequisite: 16 semester hours in Biology or Geoscience.

0499-0402 Plankton Sampling and Analysis

Sampling, identification and counting of phytoplankton and zooplankton. New Jersey Marine Sciences Consortium. 1 s.l.
 Prerequisite: Biology major or permission of the instructor.

0499-0403 Primary Production in the Marine Environment

Theory and techniques of primary production measurement. At New Jersey Marine Sciences Consortium. 1 s.l.
 Prerequisite: 16 semester hours in Biology or Geoscience.

0499-0404 Plant and Animal Histological Techniques

Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hour lecture, 3 hours laboratory) 3 s.
 Prerequisite: 12 semester hours of Biology.

Department of Chemistry

Professors: Becker, Gawley

Associate Professors: Flynn, Gallopo, Garik, Placek, Wilson, Zabady

Assistant Professors: Awadallah; Isidor; Kasner; Lynde, Chairman; Lyndru Paisley; Schorr

Major course requirements and the selection of appropriate elective courses will enable a student to prepare for:

- I Graduate study in chemistry or biochemistry
- II Professional programs in science-related fields
- III Professional employment
- IV Teacher certification

The chemistry program meets the criteria established by the American Chemical Society for undergraduate education in chemistry and is included in the ACS list approved programs. Students who successfully complete the certification program will have fulfilled the minimum requirements for professional education as adopted by the ACS and will be certified to the Society upon graduation.

Students interested in teacher certification should complete the professional sequence of the Teacher Education Program in addition to completing the chemistry major requirements.

The curriculum designed for chemistry majors assumes that students have been exposed to chemistry, biology and physics, as well as four years of high school college

preparatory mathematics. Those students having only three years of mathematics will be required to take 1701-0115 Introductory Mathematical Analysis.

Chemistry Major

I. Chemistry Requirements:	semester hours
1905-0120, 21 General Chemistry I, II	4 ea.
1905-0230, 31 Organic Chemistry I, II	3 ea.
1905-0232, 33 Experimental Chemistry I, II	3 ea.
1905-0340, 41 Physical Chemistry I, II	3 ea.
1905-0342, 43 Experimental Physical Chemistry I, II	2 ea.
II. Collateral Requirements:	
Four Mathematics Courses	12
1701-0115 Introductory Mathematical Analysis (if required)	
1701-0116, 0215, 0218 Calculus A,B,C	
1701-0315 Applied Differential Equations	
1902-0101 General Physics I, II	4 ea.
III. Electives: at least 6 semester hours from the following:	
1905-0310, 11 Quantitative Analysis I, II	4 ea.
1905-0410 Advanced Quantitative Analysis	4
1905-0421 Descriptive Inorganic Chemistry	3
1905-0422 Experimental Inorganic Chemistry	3
1905-0423 Theoretical Inorganic Chemistry	3
1905-0430 Advanced Organic Chemistry	3
1905-0440 Physical Chemistry III	3
1905-0445 Radiochemistry	3
1905-0470 Biochemistry	3
1905-0472 Experimental Biochemistry	2
1905-0490 Selected Topics in Chemistry	3 ea.
1905-0495 The Chemical Literature	1 or 2
1905-0498 Senior Laboratory	3
1905-0499 Undergraduate Research	1, 2 or 3

Chemistry Major—ACS Certification

In addition to courses fulfilling the general education requirement and the courses listed in I and II of the Chemistry Major program, a student who wishes to fulfill the minimum requirements for professional training of the ACS should elect the following courses:

I	1905-0310, 11 Quantitative Analysis I, II	8
II	1905-0440 Physical Chemistry II	3
II	1905-0423 Theoretical Inorganic Chemistry	3
	or	
	1905-0470 Biochemistry	3
III	At least one course from the following:	
	1905-0410 Advanced Quantitative Analysis	4
	1905-0423 Theoretical Inorganic Chemistry	3
	1905-0430 Advanced Organic Chemistry	3
	1905-0470 Biochemistry	3
	1905-0490 Selected Topics in Chemistry	3
IV	1905-0422 Experimental Inorganic Chemistry	3
	or	
	1905-0472 Experimental Biochemistry	2
V	1905-0498 Senior Laboratory	3
	or	
	1905-0499 Undergraduate Research	3

The learning of certain other skills might be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French

Mathematics: Linear algebra

Computer Science: programming ability in BASIC and FORTRAN

Chemistry Minor

I. Chemistry Requirements:

1905-0120, 21	General Chemistry I, II	4 ea.
1905-0230, 31, 32	Organic Chemistry I, II and Experimental Organic Chemistry	8
1905-0340, 42	Physical Chemistry I and Experimental Physical Chemistry I	5

REQUIRED TOTAL 21

SECOND TEACHING FIELD IN PHYSICAL SCIENCE

There is no New Jersey certification in the field of chemistry alone. Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following program:

1902-0101, 02	General Physics I, II	4 ea.
Physics Elective		4
1905-0120, 0121	General Chemistry I, II	4 ea.
1905-0230, 0232	Organic Chemistry I and Experimental Chemical I	5

REQUIRED TOTAL 25

COURSE DESCRIPTIONS

1905-0100 Introductory Chemistry

A non-laboratory survey course in modern chemistry for non-science majors. (lecture) 3 s.h.

1905-0107 and 0108 College Chemistry I and II

Introductory chemistry course for non-science majors. Fundamentals of inorganic organic and biochemistry. A sequential six credit course. (2 hours lecture, 2 hours laboratory) 3 s.h. ea

Prerequisite for 0108: 1905-0107 College Chemistry)

1905-0120 and 0121 General Chemistry I and II

Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding thermochemistry, kinetics, chemical equilibrium, electrochemistry, and selected topics

Laboratory stresses techniques and data treatment and their use in examining chemical systems. (3 hours lecture, 3 hours laboratory) 4 s.h.

Prerequisites for 0120: completion of one year of secondary school chemistry or 1905 0107 College Chemistry I

Prerequisite for 0121: 1905-0210 General Chemistry I

1905-0130 Survey of Organic Chemistry

Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. Laboratory work to reinforce concepts studied in lecture and increase experimental capabilities. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: 1905-0107 College Chemistry I or equivalent.

1905-0230 and 0231 Organic Chemistry I and II

Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties. (lecture) 3 s.h.

Prerequisites for 0230: 1905-0121 General Chemistry II

Prerequisites for 0231: 1905-0230 and 0232 Organic Chemistry I and Experimental Organic Chemistry I

1905-0232 and 0233 Experimental Organic Chemistry I and II

A laboratory course to be taken concurrently with 1905-0230 and 0231. Basic laboratory techniques and experiments in organic chemistry. (4 hours laboratory) 2 s.h.

1905-0270 Survey of Biochemistry

Structure and function of biochemicals and their metabolic interrelationships in the cell. (4 hours lecture, 2 hours laboratory) 5 s.h.

Prerequisite: 1905-0130 Survey of Organic Chemistry

1905-0310 and 0311 Quantitative Analysis I and II

- I) Theory and practice of analysis; acidimetry, gravimetry and redox methods.
- II) Instrumental methods including potentiometry, conductimetry, polarography, colorimetry, electrodeposition and compleximetry. (2 hours lecture, 4 hour laboratory) 4 s.h. ea.

Prerequisites for 1905-0311: 1905-0340 and 0342 Physical Chemistry I and Experimental Physical Chemistry I

1905-0340 and 0341 Physical Chemistry I and II

- I) Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
- II) Kinetics, photochemistry, molecular physical chemistry. (lecture) 3 s.h. ea.

Prerequisites: 1905-0231 Organic Chemistry II, 1701-0215 Calculus C or 1701-0221 Calculus III, 1902-0102 General Physics II

1905-0342 and 0343 Experimental Physical Chemistry I and II

A laboratory course to be taken concurrently with 1905-0340 and 0341. Application and experience with modern techniques of physical chemistry. (4 hours laboratory) 2 s.h.

1905-0410 Advanced Quantitative Analysis

Extends methods of analysis in 1905-0311. Absorption and emission spectroscopy, photometry, NMR, ESR, GC, thermoanalysis, polarography, amperometry and principles of automatic analysis. (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisites: 1905-0311 Quantitative Analysis II and 0341 Physical Chemistry II

1905-0411 Water Analysis and Purification

Modern chemical and biological techniques utilized in analysis and purification of water. (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisites: 1905-0310 Quantitative Analysis I or permission of the instructor.

1905-0421 Principles of Descriptive Inorganic Chemistry

Chemistry of elements and their compounds. Industrially and theoretically significant compounds and reactions illustrate utility of periodic chart in systematizing and predicting chemical reactivity. (lecture) 3 s.h.

Prerequisite: 1905-0231 Organic Chemistry II or permission of the instructor.

1905-0422 Experimental Inorganic Chemistry

Practical experience utilizing a broad selection of modern techniques for synthesis and characterization of inorganic compounds. (1 hour lecture, 4 hours laboratory) 3 s.h.

Prerequisite: Completion of current election of 1905-0340 Physical Chemistry I

1905-0423 Principles of Theoretical Inorganic Chemistry

Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, chemistry of aqueous and non-aqueous solutions, coordination chemistry and chemical periodicity. (lecture) 3 s.h.

Prerequisites: 1905-0340 Physical Chemistry I, 1701-0216 Calculus C.

1905-0430 Advanced Organic Chemistry

Consideration of structural and electronic theories which form the basis of organic chemistry. (lecture) 3 s.h.

1905-0440 Physical Chemistry III

Quantum mechanics, bonding theory, atomic structure, statistical thermodynamic calculations. (lecture) 3 s.h.

Prerequisites: 1905-0341 Physical Chemistry II and 1701-0315 Applied Differential Equations.

1905-0445 Radiochemistry

Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems. (lecture) 3 s.h. Prerequisite: 1905-0340 Physical Chemistry I

1905-0447 Biophysical Chemistry

Thermodynamics, equilibria, transport processes, kinetics, and electrochemistry as applied to cellular processes. (lecture) 3 s.h.

Prerequisite or co-requisite: 1905-0470 Biochemistry or 0401-0444 Cell Physiology or permission of instructor; 1701-0117, 0118 Mathematics for the Life Sciences I and II.

1905-0460 Industrial Chemistry

Survey of chemical industry involving lectures and plant visits. (Not given every summer.) (2 hours lecture and field trips) 4 s.h.

Prerequisite: 1905-0232 Organic Chemistry II.

1905-0470 Biochemistry

Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis. (lecture) 3 s.h.

Prerequisite: 1905-0231 Organic Chemistry II

1905-0472 Experimental Biochemistry

Laboratory studies of carbohydrates, lipids, protein and enzyme action using biochemical techniques. Opportunity is provided for individual projects. (4 hours laboratory) 2 s.h. Prerequisites: 1903-0231 Organic Chemistry II and (or concurrently) 1905-0470 Biochemistry.

1905-0490 Selected Topics in Chemistry

In-depth study of a modern aspect of chemistry. (lecture)

3 s.h. ea.

Prerequisite: 1905-0340 Physical Chemistry I or permission of instructor.

1905-0495 The Chemical Literature

The chemical literature and techniques of extracting information from it. 1 or 2 s.h.

Prerequisite: At least 18 semester hours of chemistry and recommendation of instructor.

1905-0499 Undergraduate Research

Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor

Prerequisite: At least 27 semester hours in chemistry and recommendation of faculty sponsor.

PHYSICS COURSE DESCRIPTIONS

1902-0101 and 0102 General Physics I and II

Calculus-based course: a study of kinematics, dynamic, through energy and linear momentum, rotation, harmonic motion and heat: mechanical vibrations, sound, optics, electricity and magnetism, and modern physics. Lecture-demonstrations, problem solving sessions and laboratory experiences. (3 hours lecture, 2 hours laboratory). Prerequisites: (0101) 1701-0115 Mathematical Analysis or concurrent; (0102) 1701-0116 Calculus A or concurrent. 4 s.h. ea.

1902-0103 and 0104 College Physics I and II

Two semester non-calculus course for non-physical science majors; laboratory experiences; mechanics, heat, geometric optics, waves and physical optics, electricity and magnetism, and modern physics. (3 hours lecture, 2 hours laboratory) 4 s.h. ea.

1902-0105 Acoustics

The study of sound for science and non-science majors; applications to music and speech. The nature of sound, wave motion, standing waves and resonance, the ear and hearing, scales and tuning. Musical instruments and the voice, architectural acoustics, and electronic sound recording and reproduction. (1 hour lecture, 2 hours laboratory) 2 s.h.

1902-0107 Elementary Physics for the Home

A laboratory course developing basic principles in the construction, operation and performance of home instruments and utensils. Mechanical, electrical and optical properties of appliances. Plumbing, insulation and energy conservation. 3 s.h.

1902-0210 Mechanics

Classical mechanics: kinematics, Newton's laws, impulse and momentum, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hours lecture, 2 hours laboratory) 4 s.h. Prerequisites: 1902-0101, 0102 General Physics I & II, 1701-0215 Calculus B or taken concurrently.

1902-0240 Electricity and Magnetism

Basic principles of electromagnetism: Coulomb's Law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hours lecture, 2 hours laboratory) 4 s.h. Prerequisites: 1902-0102 General Physics II, 1701-0116 Calculus A or taken concurrently.

1902-0245 Electronics

Measuring instruments, transistors, amplifiers, generators and logic circuits are used to explain principles of electronics. (Not offered every year.) (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisites: 1902-0240 Electricity and Magnetism.

1902-0280 Astronomy

Application of physical laws to the earth as a planet; nature of the other planets; orbital motion and space flight; origin of the solar system; the birth, life, and death of a star; galactic structure and cosmology. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisites: 1 year introductory Physics, 1701-0115 Introductory Mathematical Analysis.

1902-0310 Advanced Mechanics

Classical mechanics; transformations, oscillators, generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. (Offered alternate years.) (3 hours lecture) 3 s.h.

Prerequisites: 1701-0216 Calculus C, 1902-0210 Mechanics or permission of the instructor. Differential equations is recommended.

1902-0320 Thermodynamics

Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. Offered alternate years. (3 hours lecture) 3 s.h.

Prerequisites: 1701-0216 Calculus C, 1902-0210 Mechanics or permission of the instructor.

1902-0340 Advanced Electricity and Magnetism

Dielectric materials; image calculations; Laplace's equation; magnetic materials and flux; A.C. networks; non-sinusoidal AC, transients and pulses; electromagnetic radiation. (Offered alternate years.) (3 hours lecture) 3 s.h.

Prerequisites: 1701-0315 Applied Differential Equations or permission of the instructor.

1902-0350 Optics

Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisites: 1701-0216 Calculus C, 1902-0240 Electricity and Magnetism.

1902-0377 Mathematical Physics

Vector analysis; complex variables; ordinary and partial differential equations, matrices.
(Not offered every year.) (3 hours lecture) 3 s.h.

Prerequisites: 1701-0216 Calculus C and 2 years of physics.

1902-0460 Modern Physics

Special relativity, kinetic theory of matter; quantization of electricity, light and energy,
nuclear atom, elementary quantum mechanics and topics on solid state: (Offered
alternate years.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisites: 1902-0210 Mechanics, 1902-0240 Electricity & Magnetism, 1701-0216 Cal-
culus C.

1902-0462 Nuclear Physics

Nuclear radiation, radioactive decay, detectors; nuclear spectroscopy and reactions;
theories and models; fission, fusion, reactors and application of radio-isotopes. (Offered
alternate years.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisites: 1902-0210 Mechanics; 1902-0240 Electricity & Magnetism; 1701-0216 Cal-
culus C.

1902-0464 Quantum Mechanics

Shroedinger's Wave Equation, its application and interpretation; Pauli exclusion principle
and spectra. (Offered alternate years.) (3 hours lecture) 3 s.h.

Prerequisites: 1701-0216 Calculus C, 1902-0460 Modern Physics.

1902-0470 Solid State Physics

Properties of solid state matter are developed from the quantum mechanics of atoms
and molecules. (Not offered every year.) (3 hours lecture) 3 s.h.

Prerequisites: 1701-0216 Calculus C, 1902-0460 Modern Physics.

1902-0490 Literature Research in Physics

Student considers topics in physics and gains facility in literature research techniques;
topics in pure physics or related to physics education. Student intending to enroll in
Laboratory Research in Physics should use 1902-0490 to provide the literature research
related to his laboratory problem. (Not offered every year.) (2 hours lecture) 2 s.h.

Prerequisite: At least 16 credit hours of physics beyond General Physics.

1902-0495 Laboratory Research in Physics

Solution of a laboratory problem; research in pure physics or in physics education;
written report required. (Not offered every year.) 1-4 s.h.

Prerequisite: At least 16 hours of physics beyond General Physics.

GEOSCIENCE COURSE DESCRIPTIONS

1914-0100 Fundamentals of Geoscience

Elements of earth-sun relations, weather, oceanography, earth materials and land-
form types. Required field trip. Not open to Geoscience majors or to those who have
had Physical Geography. (3 hours lecture) 3 s.h.

1914-0101 Principles of Geology

Geologic materials and processes. Paleogeographic, stratigraphic and structural de-
velopment of the earth throughout geologic time. Evolution of life as interpreted through
the study of rocks and fossils. Required field trip. Not open to Geoscience majors or to
those who have had Physical Geology. (3 hours lecture) 3 s.h.

1914-0112 Physical Geology

Materials of the earth; land forms and structures; the processes and agents responsi-
ble for their formation; modern tectonic concepts. Topographic and geologic maps. Re-
quires field trips. Not open to students who have had Principles of Geology. (3 hour
lecture, 2 hours laboratory) 4 s.h.

1914-0114 Historical Geology

Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hours lecture, 2 hours laboratory) 4 s.h.
 Prerequisite: 1914-0112 Physical Geology or the permission of the instructor.

1914-0210 Economic Geology

Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year.) (lecture) 3 s.h.

Prerequisite: 1914-0112 Physical Geology or 1914-0101 Principles of Geology or permission of the instructor.

1914-0220 Conservation of Natural Resources

The imbalance between natural resources and world population distribution and growth. Required field trip. (3 hours lecture, 3 hours laboratory) 3 s.h.

1914-0231 Fossils of New Jersey

The collection, preparation and significance of New Jersey fossils. Required field trips. Not open to Geoscience majors or those who have had Invertebrate Paleontology. (2 hours lecture, 2 hours laboratory) 3 s.h.

1914-0250 Map Interpretation and Cartography

The use of cartographic instruments; principles underlying the common types of map projections. (2 hours lecture, 2 hours laboratory) 3 s.h.

1914-0254 Geomorphology and Climatology of North America

Major controls and features of the land-forms and climate of North America analyzed to compare and relate the continent to the rest of the world. The basic and distinct characteristics of the subdivisions of North America are contrasted. (3 hours lecture)
 Prerequisite: 1914-0100 Fundamentals of Geoscience or 1914-0101 Principles of Geology or 1914-0457 Meteorology or permission of the instructor. 3 s.h.

1914-0260 Introduction to the Marine Sciences

A field-oriented course covering the principal disciplines in the marine sciences; the student evaluates his interest in the marine science world. Also offered at the site of the N. J. Marine Sciences Consortium. (2 hours lecture, 4 hours laboratory) 4 s.h.

1914-0262 General Oceanography

The physical, chemical, geological and biological aspects of the oceans and their interrelationship. Required field trips. For non-science majors. (3 hours lecture) 3 s.h.

1914-0320 Contemporary Problems in Conservation of Natural Resources

Contemporary environmental problem areas throughout the world. Basic scientific and ecological concepts related to present economic exploitation and/or preservation. Supplements introductory work in conservation, studies issues more deeply. (3 hours lecture) 3 s.h.

1914-0325 Environmental Geology

Relationships of Man and his geological habitat, Earth. Earth resources and processes and properties of natural materials as related to human activities. Pollution of soil, water, and air. Required field trips. (Not offered every year.) (3 hours lecture) 3 s.h.
 Prerequisites: 1914-0100 Fundamentals of Geoscience or 1914-0101 Principles of Geology or 1914-0112 Physical Geology.

1914-0347 Mineralogy of Gem Materials

Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials; the cutting and polishing of gem materials. Required field trips. (2 hours lecture, 2 hours laboratory) 3 s.h.
 Prerequisite: An introductory course in Geoscience.

1914-0355 World Regional Geomorphology

Distribution and geomorphic characteristics of major landforms are studied as to origin, stage of geologic development and inter-relationship. (Not offered every year.) (3 hours lecture) 3 s.h.

Prerequisite: An introductory course in Geoscience or permission of the instructor.

1914-0356 World Regional Climatology

Distribution, characteristics and causes of major world climates as related to the controls of climate. Climatic anomalies and paleo-climatic changes. (Not offered every year.) (3 hours lecture) 3 s.h.

Prerequisite: 1914-0100 Fundamentals of Geoscience or 1914-0457 Meteorology or permission of the instructor.

1914-0358 Glacial Geology

Materials, processes and effects of glaciation. Required field trips. (Not offered every year.) (3 hours lecture) 3 s.h.

1914-0360 Oceanography

Physical and chemical properties of sea water; oceanic circulation; waves and tides; estuarine and shoreline processes. Required field trips. (3 hours lecture) 3 s.h.

Prerequisites: Advanced standing in Physical or Biological Sciences or permission of the instructor.

1914-0410 Geology of New Jersey

The physical features of New Jersey and their origin; geologic history; stratigraphy; paleontology; mineralogy; structural geology; economic geology. Required field trips. (3 hours lecture) 3 s.h.

Prerequisite: 1914-0112 Physical Geology or 1914-0101 Principles of Geology or the permission of the instructor.

1914-0433 Invertebrate Paleontology

Invertebrate fossils, their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: 1914-0114 Historical Geology, 0401-0130 Invertebrate Zoology or the permission of the instructor.

1914-0434 Stratigraphy

Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: 1914-0433 Invertebrate Paleontology or permission of the instructor.

1914-0437 Sedimentology

Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year) (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: 1914-0112 Physical Geology or the permission of the instructor.

1914-0443 Mineralogy

Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisites: 1914-0112 Physical Geology and 1905-0102 General Chemistry II.

1914-0444 Petrology

Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trip. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: 1914-0443 Mineralogy or the permission of the instructor.

914-0457 Meteorology

The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurement of changes within the atmosphere. (3 hours lecture, 2 hours laboratory) 4 s.h.

Prerequisite: An introductory course in Geoscience.

914-0460 Introduction to Oceanography (Physical)

Physical processes in the ocean. Geophysical description of the earth. Forces acting in the marine environment. Heat, water and salt budgets. Waves and tides. Oceanic and estuarine circulation. Field work: oceanographic instrumentation, methods of physical oceanography. Also offered at the site of the N.J. Marine Sciences Consortium. (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisites: 1 year of college Physics; Calculus (Integral and Differential).

914-0464 Geology of the Oceans

The geology of the oceans, including tectonics, geochemistry, shoreline processes, stratigraphy, sedimentology and related subjects. (Not offered every year.) (4 hours lecture) 4 s.h.

Prerequisite: 1914-0112 Physical Geology or permission of the instructor.

914-0465 Coastal Marine Geology

The geologic processes concerned with the supra-, inter- and subtidal areas of the near shore environment. Field studies emphasize dynamics of erosion and deposition as well as general sedimentation associated with the modification of barrier beaches and other land forms of the New Jersey shoreline. Also offered at the site of the N.J. Marine Sciences Consortium. (Not offered every year.) (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: 1914-0112 Physical Geology or the permission of the instructor.

914-0466 Field Methods in Oceanography and Marine Biology

The applications and techniques of marine samplings; the nature and role of various pieces of equipment. Field experience at the N.J. Marine Sciences Consortium field station. (1 hour lecture or 2 hours laboratory) 1 s.h.

Prerequisite: Senior standing in science.

914-0467 Dynamic Beach Processes

The processes and forces involved in material transport within the beach zone. Also offered at the site of the N.J. Marine Sciences Consortium. (1 hour lecture, 2 hours laboratory) 1 s.h.

Prerequisites: 1914-0437 Sedimentology and 1914-0360 Oceanography or the permission of the instructor.

914-0468 Tidal Marsh Sedimentation

Processes involved in sediment transport and deposition within the marsh system. Also offered at site of N.J. Marine Sciences Consortium. 2 s.h.

Prerequisites: Advanced standing in Geoscience, including Sedimentology.

914-0469 Independent Study in the Marine Sciences

Individual research projects selected under the guidance of a professor. Open only to advanced students who have indicated a potential for original thinking. Also offered at the site of the N.J. Marine Sciences Consortium. (Not offered every year.) 1-4 s.h.

Prerequisite: Courses in any of the Marine Sciences and permission of the instructor.

914-0472 Structural Geology

Recognition and interpretation of primary and tectonic rock structures; laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips. (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: 1914-0112 Physical Geology or permission of instructor.

914-0480 Field Studies in Geoscience

use of geologic, meteorologic and oceanographic instruments in field investigations; interpretation of observations and writing a field report. Required field trips. (2 hours lecture, 4 hours laboratory) 4 s.h.

Prerequisite: Geoscience major sequence.

1914-0484 Geology Field Trip

A five-day to one-week trip through areas of geologic significance. A geoscience major is expected to participate in at least two of the trips. Field trip report and collection required. Expenses shared by the participants.

1 s.h.

Prerequisite: Geoscience major sequence or permission of the department.

1914-0490 Seminar in Geoscience

Student field, laboratory and library investigation of a problem in the area of his interest in Geoscience; results presented in oral and written form. Class discussion of the individual papers and of other pertinent topics of current interest in Geoscience. (Not offered every year.)

2 s.h.

Prerequisite: Geoscience major sequence or permission of the instructor.

1914-0495 Independent Study in Geoscience

An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. (Offered on demand.)

2-4 s.h.

Prerequisite: Geoscience major sequence or permission of the instructor.

Science Education Courses

0834-0401 Teaching of Science in Secondary Schools

Educational objectives of science in the public schools; science instruction programs for secondary schools; instruction and enrichment materials; evaluation in science classes; special methods of teaching applicable to science instruction. (3 hours lecture)

3 s.h.

0834-0405 The Construction and Use of Molecular Models

Composition, shapes and relative sizes of some common molecules. Construction of scale models.

2 s.h.

Prerequisite: One year of college chemistry.

0834-0409 Senior High School Physical Science Demonstrations

Demonstrations and experiments designed for work in high school chemistry, physics, and applied physical science courses. (Not offered every year.) (2 hours lecture)

2 s.h.

0834-0410 Junior High School Science Demonstrations

Demonstrations and experimental instruction appropriate to grades seven, eight and nine. (4 hours lecture)

4 s.h.

0834-0460 Marine Science Education

Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.

2 s.h.

Prerequisite: Undergraduate science major sequence including a 400-level oceanography course and a science methods course, or permission of instructor.

Interdisciplinary Science Courses

4902-0100 Concepts in Science

For non-science majors; modern science, understanding its methods and philosophy the understanding of their nature rather than mathematical description of the law. (2 hours lecture, 2 hours laboratory)

3 s.i.

4902-0101 and 0102 Man and Technology I and II

Inter-disciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision-making and computer logic modeling, stability, feedback, and control techniques for the man-made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. (2 hours lecture, 2 hours laboratory)

3 s.h.e

4902-0103 Technology for the Layman

Simplified description of man-made devices; common technological terms and physical principles behind heaters, airconditioners, airplanes, telephone, radar, nuclear reactors, etc. (3 hours lecture) 3 s.h.

4902-0104 History of Science

The historical and philosophical development of science traced from the ancient Egyptians to the present. (3 hours lecture) 3 s.h.

4902-0106 Science and Society

Non-mathematical course; some of the principles of science, their relationship to society as solutions to and causes of problems. (3 hours lecture) 3 s.h.

4802-0120 Introduction to Photography

Laboratory and field work, lectures and demonstrations: the construction of cameras, common films and papers, fundamental chemistry and photography, development and printing. A student needs at least one camera. (1 hour lecture, 2 hours laboratory.) 2 s.h.

4902-0180 Descriptive Astronomy

For the general student. The tools of the astronomer; the nature of the solar system; motions and laws relative to systems; the nature, classification and magnitudes of stars; and cosmogony, a historical view. (3 hours lecture) 3 s.h.

4902-0220 Photography

Laboratory and field work, lectures and demonstrations: nature of light; lenses and optical systems of cameras, enlargers; chemicals and principles used in development and printing of films and papers, and special techniques. (2 hours lecture, 2 hours laboratory) 3 s.h.

Prerequisite: An introductory course in Photography or permission of instructor.

4902-0422 Consumer Science

Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products. Not open to Freshmen and Sophomores. (2 hours lecture, 2 hours laboratory) 3 s.h.

Department of Mathematics

Professor: Clifford; Maletsky; Sobel; Stoddard, Chairman

Associate Professors: Chai, Garfunkel, Demetropolous, Koellner, Lacatena, Parzynski, Stevens, Stewart, Westphal

Assistant Professors: Ahluwalia, Anderson, Benton, Boyno, Bredlau, Carroll, Devlin, Friedman, Gottschall, Gugel, Heft, Kalmanson, Kenshaft, Leef, Nettler, Roberts, Williamson, Wolff, Zipse

The department offers a major and a minor program in mathematics, and a minor program in computer science. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science.

Students majoring in mathematics who desire teacher certification must complete the professional sequence and the following courses: 1701-0350, 0431, and 0470. Students majoring in another field who desire a teaching certificate in mathematics in addition to one in their major field must take an approved 24-hour program in mathematics that includes a calculus sequence, 1701-0335, and 0350.

Mathematics Major

Requirements

All majors must demonstrate proficiency in calculus, linear algebra, elementary computer programming and probability. This requirement is usually satisfied by completing Calculus I, II, III (0122, 0221, 0222), Elements of Linear Algebra (0335), Intro-

duction to Computing (0161) and Probability (0340). Students who have taken high school courses in the above areas may receive advanced placement with credit based on either the Advanced Placement Examination or a standardized departmental examination.

II. Electives: 15 semester hours from:

	semester hours
1701-0350 College Geometry	3
1701-0420 Differential Equations	3
1701-0423 Introduction to Complex Variables	3
1701-0425, 0426 Advanced Calculus I, II	3 ea.
1701-0428 Introduction to Topology	3
1701-0431 Foundations of Modern Algebra	3
1701-0433 Theory of Numbers	3
1701-0436 Elements of Logic	3
1701-0440 Statistical Methods for Research	3
1701-0443 Statistics: Theory and Applications	3
1701-0450 Foundations of Geometry	3
1701-0460 Introduction to Applied Mathematics	3
1701-0463 Introduction to Numerical Analysis	3
1701-0465 Linear Programming and Game Theory	3
1701-0471 Selected Topics in Modern Mathematics	3
1701-0475 History of Mathematics	3
1701-0495, 0496 Seminar in Mathematics I, II	3 ea.

Students should choose courses from the elective list that are consistent with their professional goals. Those who desire teacher certification should consider taking 1701-0471, 0475. Students interested in the following areas should select a minimum of three courses from the appropriate list.

1. Graduate School Preparation: 1701-0425, 0426, 0428, and 0431.
2. Computer Science: 1701-0425, 0440, 0463, minor in computer science.
3. Statistics: 1701-0425, 0440, 0443, 0461.

Minor in Mathematics

(Arts and Sciences Programs)

Students may earn a minor in the field of mathematics by completing an approved 18-hour program in mathematics that includes a calculus sequence and 1701-0335.

Minor in Computer Science

(Arts and Sciences Programs)

Students may earn a minor in computer science by completing an 18-hour program from the following list of courses: (At least 9 hours must be selected from courses numbered above 1701-0300.)

1701-0260, 0261 Introduction to Computer Applications I, II	3 ea.
1701-0283, 0284 Foundations of Computer Science I, II	3 ea.
1701-0380 Assembler Language Programming	3
1701-0383 Data Structures	3
1701-0480 Systems Analysis and File Management	3
1701-0481 Operating Systems	3
1701-0484 Fundamentals of Programming Languages	3

COURSE DESCRIPTIONS

1701-0101 Introduction to Modern Mathematics I

For students with a major interest in fields other than mathematics and science. Emphasis is on basic concepts rather than on formal manipulative skills. Topics include sets, logic, finite mathematics, systems of numeration, and properties of sets of numbers. Not for Math-Science majors.

3 s.h.

1701-0102 Introduction to Modern Mathematics II

Application of basic concepts to topics in algebra, geometry, statistics, probability, and elementary calculus. Not for Math-Science majors.

3 s.h.

Prerequisite: 1701-0101 or the equivalent.

1701-0103 The Development of Mathematics

The growth and development of mathematics from ancient to modern times; contributions of the great mathematicians. Not for Math-Science majors.

3 s.h.

1701-0107 Computers and Society

Information processing in political and social spheres, applications to industry and industrial automation, research in social sciences and humanities; programming for techniques, not proficiency. Not for Math-Science majors.

3 s.h.

1701-0108 Computers and Programming

Develops programming competence in the BASIC language and the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for Math-Science majors.

3 s.h.

1701-0109 Statistics

Introduction to the use and misuse of statistics. Topics include: analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making.

3 s.h.

1701-0110 Introduction to Algebra and Analysis

Sets, relations, functions, development of number systems, and algebraic operations. May not be taken for credit by students who have received high school credit for intermediate algebra. Not for Math-Science majors.

3 s.h.

1701-0111 Introduction to Calculus

Functions, differentiation, maxima-minima problems and other applications, integration. Not for Math-Science majors.

3 s.h.

Prerequisite: 1701-0110 Introduction to Algebra and Analysis or the equivalent.

1701-0112 Introduction to Linear Algebra

Vectors, matrices, linear functions, linear programming. Not for Math-Science majors.

Prerequisite: 1701-0111 Introduction to Calculus or the equivalent.

3 s.h.

701-0115 Introductory Mathematical Analysis

Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, and elements of vectors, matrices and determinants.

3 s.h.

701-0116 Calculus A

The derivative, differentiation and integration of functions of one variable. Not for Math-Science majors.

3 s.h.

Prerequisite: 1701-0115 Introductory Mathematical Analysis or the equivalent.

701-0117 Mathematics for the Life Sciences I

Descriptive statistics, counting techniques, probability distributions, biological models, introduction to hypothesis testing. Applications include: genetics, ecology, biochemistry, experimental design.

3 s.h.

701-0118 Mathematics for the Life Sciences II

Mathematical models; population biology, diversity in populations, population genetics, contingency tables, regression analysis, mathematical ecology, topics in demography, tests of biological models.

3 s.h.

Prerequisite: 1701-0117 Mathematics for the Life Sciences I.

701-0121 Mathematical Analysis

Logic and sets, real number system, relations and functions, trigonometry and circular functions, binomial theorem, inverse functions, elementary theory of equations and inequalities, complex numbers and analytic plane geometry.

4 s.h.

1701-0122 Calculus I

Limits; continuity; derivatives and differentiation; anti-differentiation; maxima, minima, and extreme considerations; differentials and related rates. 4 s.h.

Prerequisite: Four years of high school mathematics or 1701-0121 Mathematical Analysis.

1701-0161 Introduction to Computing

Introduction to electronic computers and computer programming in BASIC language. 1 s.h.

Corequisite: Registration in a calculus course.

1701-0210 Statistical Methods

Descriptive statistics, random variables, probability distributions, binomial, Poisson and normal distributions, estimation, hypothesis testing. 3 s.h.

Prerequisite: 1701-0111 Introduction to Calculus or the equivalent.

1701-0215 Calculus B

Integration, applications, transcendental functions, techniques of integration, polar coordinates. 3 s.h.

Prerequisite: 1701-0116 Calculus A or the equivalent.

1701-0216 Calculus C

Calculus in solid geometry, partial differentiation, multiple integration, infinite series, differential equations. 3 s.h.

Prerequisite: 1701-0215 Calculus B or the equivalent.

1701-0221 Calculus II

Riemann integral applications, transcendental functions, techniques of integration, polar coordinates. 4 s.h.

Prerequisite: 1701-0122 Calculus I or the equivalent.

1701-0222 Calculus III

Calculus in solid geometry, partial differentiation, multiple integration, infinite series differential equations. 4 s.h.

Prerequisite: 1701-0221 Calculus II or the equivalent.

1701-0260 Introduction to Computer Applications I

Emphasis is on the business applications of a modern computer; languages FORTRAN and COBOL. May not be taken for credit by students who have received credit for 1701-0283 or 1701-0461. 3 s.h.

1701-0261 Introduction to Computer Applications II

Applications in accounts receivable, payroll and inventory; language COBOL. Card tape, and disc files. 3 s.h.

Prerequisite: 1701-0260 or 1701-0283.

1701-0283 Foundations of Computer Science I

Basic theory of digital computers; languages FORTRAN AND PL/1. Flowcharting strings, arrays, loops, and files. 3 s.h.

Prerequisite: 1701-0116 or 1701-0122 or the equivalent.

1701-0284 Foundations of Computer Science II

Comparative analysis of algorithms, lists, processing strings, processing and simulation languages, and introduction to formal languages. 3 s.h.

Prerequisite: 1701-0283.

1701-0315 Applied Differential Equations

Solution of ordinary and partial differential equations of the natural sciences, d operator, divergence, curl, Laplace's equation, Green's and Stoke's Theorems. 3 s.

Prerequisite: 1701-0216 Calculus C or the equivalent.

1701-0335 Elements of Linear Algebra

Vectors, vector spaces, systems of linear equations, matrices, determinants and line transformations. 3 s.

Prerequisite: 1701-0116 Calculus A or 0122 Calculus I, or the equivalent.

1701-0340 Probability

Chance and variability, elements of combinatorics, Bayes' Theorem, random variables, binomial, Poisson and normal distributions, applications to statistics. 3 s.h.

Prerequisite: 1701-0215 Calculus B or 0221 Calculus II or the equivalent.

1701-0350 College Geometry

Study of Euclidean and other geometries from a postulation point of view. 3 s.h.

Prerequisite: 1701-0215 Calculus B or 0221 Calculus II, or the equivalent.

1701-0380 Assembler Language Programming

Computer structures, introduction to assembler language, subroutine linkage, conversions, input/output instruction. 3 s.h.

Prerequisite: 1701-0261 or 1701-0284.

1701-0383 Data Structures

Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures. 3 s.h.

Prerequisite: 1701-0261 or 1701-0284.

1701-0403 Techniques and Applications of Statistics

Techniques for the social and behavioral sciences including estimation, tests of hypotheses, nonparametric statistics, regression and correlation. May not be taken for credit by mathematics majors. 3 s.h.

Prerequisite: Permission of the instructor.

1701-0404 Techniques and Applications of Computer Science

An intensive introductory course in computing designed for students in various disciplines using the Fortran language. The emphasis will be placed on the problem solving approach and techniques. 3 s.h.

Prerequisite: 1701-0215 Calculus B or 1701-0221 Calculus II, or permission of the instructor.

1701-0420 Differential Equations

Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions. 3 s.h.

Prerequisite: 1701-0222 or the equivalent.

1701-0423 Introduction to Complex Variables

This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include: Rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann Equations, and contour integrals. 3 s.h.

Prerequisite: 1701-0222.

1701-0425 Advanced Calculus I

Archimedean principle, density of the rationals, intermediate value theorem, Heine-Borel theorem, derivative, mean value theorem, Riemann integral. 3 s.h.

Prerequisite: 1701-0222 Calculus III.

1701-0426 Advanced Calculus II

Functions of several variables, partial derivatives. Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem; infinite series, uniform convergence. 3 s.h.

Prerequisite: 1701-0425 Advanced Calculus I.

1701-0428 Introduction to Topology

Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties; topological generalizations of basic continuity theorems of advanced calculus. 3 s.h.

Prerequisite: 1701-0425 Advanced Calculus I.

1701-0431 Foundations of Modern Algebra

Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.

3 s.h.

Prerequisite: 1701-0335 Elements of Linear Algebra.

1701-0433 Theory of Numbers

Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.

Prerequisite: 1701-0215 Calculus B or 0221 Calculus II.

3 s.h.

1701-0436 Elements of Logic

Deduction, propositional functions, quantifiers, consistency, decision problems and Gödel's theorem.

3 s.h.

Prerequisite: 1701-0215 Calculus B or 1701-02221 Calculus II.

1701-0440 Statistical Methods for Research

Applications of statistical methods: estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.

3 s.h.

Prerequisite: 1701-0340 Probability.

1701-0443 Statistics: Theory and Application

Develops statistical methods from probability theory. Topics: discrete and continuous probability distributions, estimation, inference and hypothesis testing.

3 s.h.

Prerequisite: 1701-0340 Probability.

1701-0450 Foundations of Geometry

Groups of transformations, the Erlanger Program and an introduction to projective geometry.

3 s.h.

Prerequisite: 1701-0335 Elements of Linear Algebra or equivalent.

1701-0460 Introduction to Applied Mathematics

Solutions to problems in the real world: vectors, matrices, series, periodic motion theory of relativity and Fourier series.

3 s.h.

Prerequisite: 1701-0216 Calculus C or 0222 Calculus III

1701-0463 Introduction to Numerical Analysis

Finite differences, approximation theory, linear and non-linear equations, error analysis.

Prerequisite: 1701-0335 Elements of Linear Algebra and 0461 Computer Science I or equivalent.

3 s.

1701-0465 Linear Programming and Game Theory

Two-person zero sum games, the normal form, mixed strategies, the minimax theorem, symmetric games, solutions of linear programs, the classical vitamin problem, and the simplex algorithm.

3 s.

Prerequisite: 1701-0340 Probability and 0335 Elements of Linear Algebra.

1701-0470 Teaching of Mathematics

Selection, organization and presentation of elementary and secondary mathematical classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.

3 s.

Prerequisite: Admission to teacher education program.

1701-0471 Selected Topics in Modern Mathematics

Professionalized view of junior and senior high school mathematics topics: function, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.

3 s.

Prerequisite: Admission to teacher education program.

1701-0472 Contemporary Programs in Secondary Mathematics

Contemporary curricula in elementary and secondary mathematics; programs currently being implemented; curriculum study recommendations.

3 s.

Prerequisite: 1701-0470 Teaching of Mathematics or concurrent registration.

1701-0475 History of Mathematics

Histories of geometry, number theory, algebra, calculus and infinite processes. 3 s.h.
Prerequisite: 1701-0221 Calculus II.

1701-0480 Systems Analysis and File Management

A major project includes forms design, sequential files, merge, sort, and editing programs. 3 s.h.

Prerequisite: 1701-0261

1701-0481 Operating Systems

System architecture, DOS, OS Systems, multi-programming, virtual storage. 3 s.h.
Prerequisite: 1701-0261 or 1701-0284.

1701-0484 Fundamentals of Programming Languages

Syntax and semantics of programming languages. Principles of compilers and compiler construction, including object code generation. 3 s.h.

Prerequisite: 1701-0383.

1701-0495 and 0496 Seminar in Mathematics I and II

Students may do independent work in advanced topics under the supervision of an instructor. 3 s.h. ea.

Prerequisite: Approval of the department chairman and the supervising instructor.

School of Professional Arts and Sciences

Houston G. Elam, Ph.D., Dean
Michael A. Puglisi, M.B.A., Associate Dean

The School of Professional Arts and Sciences is responsible for instruction, research and administration in a number of professional activities and services both on- and off-campus.

A wide variety of professional and teacher training programs are offered through the following Departments of the School:

Department	Program
Administrative Sciences	Business Administration Accounting Finance Management & Organizational Behavior Marketing Quantitative Methods General Business
Business & Distributive Education	Accounting Education Distributive Education Secretarial Practice Education
Health Professions	Allied Health Services Health Education
Home Economics	Consumer Affairs Family & Child Studies Foods & Nutrition Home Economics Education
Industrial Education and Technology	Industrial Education *Vocational-Technical Teacher Education
Physical Education	Physical Education Physical Education & Health Recreation Professions

These programs lead to professional careers in industry, non-profit institutions, governmental agencies and services, or to the teaching proficiency and certification for training others in these areas.

Although the School is the largest unit of the College, it maintains personalized relationships through strong student-faculty involvement through departmental and School-wide organizations.

The School coordinates several important programs and activities not located in traditional academic departments. The most significant of these is the New Jersey School of Conservation, a major environment and outdoor education center, which is administered by the College through the School of Professional Arts and Sciences.

The School also houses the Panzer School Council, which coordinates curricular development and the use of facilities for the Departments of Health Professions, Physical Education, and Intramurals and Leisure Activities.

General Education Requirements for the School of Professional Arts and Sciences
Common Core: Identical to those of the College as a whole regardless of the degree program pursued. See page 26

School-Planned Core: Identical for all students of the School regardless of the degree program pursued:

1. 3 semester hours from each of the following Schools: Fine and Performing Arts, Humanities, Math-Science, Social and Behavioral Sciences.

*Non degree program leading to certification only.

2. 6 semester hours from any of the above or the School of Professional Arts and Sciences, excluding the student's major department.
3. Courses should emphasize theory rather than application. Students should obtain permission of the department advisor to select upper division courses.

Department of Administrative Sciences

Professors: Elam, Volotta

Associate Professors: Chen, Evjen, Greco, Turner, Waters

Assistant Professors: Mirchin, Chairman; Ben-Horim, DiPietro, Douma, Gallay, Iyanda, London, Masheb, Min, Oppenheim, Puglisi, Schancupp, Shapiro, Simonson, Srikanth, Stein, Werner

Instructors: Berger, Crowley, Goldstein, Sfouggatakis, Smith

A major in Business Administration is offered through the Department, along with a wide variety of courses and services to students in other departments of the College. Curricula are intended to provide:

1. the managerial and technical business skills essential to a variety of job opportunities.
2. analytical skills for solving business and related problems.
3. decision-making skills necessary to a strong executive.
4. administrative knowledge required in many professional functions.
5. the capacity to understand and adjust to current and future business conditions, systems and relationships.
6. the experience and confidence necessary for success in the competitive business environment.

Students expecting to major within the Department, should schedule mathematics, economics and other general education courses during their first years, in preparation for a strong concentration in professional courses in the latter years of college.

The major in Business Administration offers several concentration areas: Professional & Managerial Accounting, Finance, Organization & Management, Marketing, Quantitative Methods and General Business. Each provides a broad understanding of business functions and procedures through a common core of courses and an in-depth concentration curriculum.

Accounting

The concentrations in Accounting prepare students for industrial, governmental or institutional positions. Industrial accountants design and supervise financial and managerial accounting systems for entire firms, including preparation and analysis of accounting reports. Governmental or institutional accountants perform similar services at various levels of those agencies and organizations.

Certified Public Accountants (CPAs) render independent audits, accounting, tax and managerial advisory services to various clients, primarily in the private sector. Students wishing to sit for the CPA examination in New Jersey and New York need 24 credits in accounting including coverage of cost accounting, tax accounting and auditing, as well as six credits in finance and/or money and banking, and six credits in business law.

Finance

This area of concentration provides the student with a professional background in both corporation finance and investments. The requirements for concentration are arranged to allow the student to specialize in one of the above two if he so desires. The courses are planned on a sequential basis and the student desirous of concentration in this existing field is advised to plan well ahead and complete early the quantitative and economics courses so as to make the best use of the field. Most of the courses offered by the Economics department can be taken as electives to improve the understanding and mastery of the field.

Management and Organizational Behavior

This concentration provides professional education in large organization theory and behavior, the management of human resources, operations and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

Marketing

The Marketing concentration provides knowledge of corporate marketing policies and procedures, persuasion and other communications, product development and display, sales organization and management, retailing and distribution systems and consumer and marketing research. It is appropriate for students wishing to enter into the sales, advertising, product management, retailing, public relations and consumer research areas of the economy.

Quantitative Analysis

This area provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with increasingly important computer applications, are handled in depth, to permit a student to become comfortable in the handling of statistics, computer science, operations research and similar quantitative subjects.

General Business

The student who does not select a specified concentration, but desires breadth in preparation for a business career, augments the required business core with a selection of twelve credits from the professional concentrations.

Business Administration Major

I. Requirements	semester hours
0506-0201 Fundamentals of Accounting I	3
0506-0202 Fundamentals of Accounting II	3
0506-0231 The Management Process	3
0506-0241 The Marketing Process	3
0506-0261 Legal Environment of Business I	3
0506-0271, 0272 Business Statistics I, II	3 ea.
0506-0315 Organizational Behavior	3
0506-0321 Fundamentals of Finance	3
0506-0439 Business Policy	3
0506-0463 Admin. Research & Analysis	3
0506-0273 Information Processing	3

The following collateral courses may be applied to General Education requirement: 1701-0111; 0112, 2204-0101, 0102.

II. Concentrations and electives as below

(Concentration in Accounting)

Managerial Accounting

0506-0301, 0302 Intermediate Accounting I, II	3
0506-0303 Auditing Theory and Practice	3
0506-0307 Cost Accounting and Control I	3
Two of the following electives:	
0506-0308 Cost Accounting and Control II	3
0506-0371 Management Information Systems	3
0506-0401 Advanced Accounting	3
0506-0403 Tax Accounting	3
0506-0405 Profit Planning and Control	3
0506-0407 Accounting Systems and Data Processing	3

Professional Accounting

0506-0301, 0302	Intermediate Accounting I, II	3 ea.
0506-0303	Auditing Theory and Practice	3
0506-0307	Cost Accounting and Control I	3
0506-0403	Tax Accounting	3
One of the following electives:		
0506-0308	Cost Accounting and Control II	3
0506-0371	Management Information systems	3
0506-0401	Advanced Accounting	3
0506-0404	Current Tax Problems	3

(Concentration in Finance)

0506-0322	Capital Budgeting Management	3
0506-0326	Investment Principles	3
Two of the following electives		
0506-0423	Capital Structure Management	3
0506-0424	Capital Management	3
0506-0425	Working Capital Management	3
0506-0427	Security Analysis	3
0506-0428	Portfolio Theory & Its Application	3

(Concentration in Management and Organizational Behavior)

0506-0316	Human Resource Management	3
0506-0363	Business and Society	3
Two of the following electives:		
0506-0332	Minorities in Business	3
0506-0235	Small Business Management	3
0506-0371	Management Information Systems	3
0506-0372	Management Science	3
0506-0431	Middle and First Line Management	3
0506-0433	Entrepreneurship and Innovation	3
0506-0434	Comparative Management Systems	3

(Concentration in Marketing)

0506-0343	Promotion and Persuasion	3
0506-0442	Marketing Research	3
0506-0446	Marketing Strategies	3
One of the following electives:		
0506-0343	Promotion and Persuasion	3
0506-0344	Advertising Media	3
0506-0386	Integrated Logistics Systems	3
0506-0441	Consumer Motivation	3
0506-0444	Sales Management	3

(Concentration in Quantitative Methods)

Select any four (4) of the following:

0506-0274	Basic Computer Programming	3
0506-0371	Management Information Systems	3
0506-0372	Management Science	3
0506-0374	Computer Management	3
0506-0375	Operations Analysis	3
0506-0474	Business Forecasting	3
0506-0475	Quantitative Decision-Making for Business	3

III. Departmental Electives	15-6
IV. Free or Collateral Electives .....	.31

(Concentration in General Business)

Select any four (4) courses from at least three (3) areas of concentration.

COURSE DESCRIPTIONS

0506-0201 Fundamentals of Accounting I

Mastery of the fundamental elements of accounting; journalizing, posting, taking a trial balance, preparing financial statements, and closing books; special journals and controlling accounts.

3 s.h.

0506-0202 Fundamentals of Accounting II

Builds on Financial Accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.

3 s.h.

Prerequisite: 0506-0201.

0506-0231 The Management Process

The field of management theory and practice; classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships; quantitative tools as decision aids, especially in production and operations.

3 s.h.

0506-0241 The Marketing Process

The role of marketing; significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

3 s.h.

0506-0261 Legal Environment of Business I

A governed society and the social forces within such a society; contracts and agency; the Uniform Commercial Code as the basis for strategy interpretation. Case materials.

3 s.h.

0506-0266 Legal Environment of Business II

Commercial paper; negotiable instruments; Uniform Commercial Code as the source for statutory investigation; case materials.

3 s.h.

Prerequisite: 0506-0261.

0506-0271 Business Statistics I

Modern statistical methods and decision-making in the face of uncertainty. Probability theory, Bayesian analysis, discrete and continuous distribution, sampling, hypothesis testing and statistical quality control.

3 s.h.

Prerequisite: 1701-0112 (or taken concurrently). Not open to students who have completed 2204-0203 or 1701-0210, 0211, 0212 or 0443.

0506-0272 Business Statistics II

Continuation of Business Statistics I. Nonparametric methods, analysis of variance, correlation and regression, time-series analysis, index numbers and Bayesian analysis.

3 s.h.

Prerequisite: 0506-0721 or equivalent.

0506-0273 Information Processing

Electronic computers in business information processing. History of information processing, needs of high-speed equipment, numbering systems, input/output devices, stored program concept, introduction to computer programming, and file manipulation technique.

3 s.h.

0506-0274 Business Computer Programming

Computer languages such as COBOL and FORTRAN; their use in developing business applications system and in scientific computations in business research.

3 s.h.

Prerequisite: 0506-0273 or equivalent.

0506-0301 Intermediate Accounting I

The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.

3 s.h.

Prerequisite: 0506-0202.

0506-0302 Intermediate Accounting II

A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds. 3 s.h.

Prerequisite: 0506-0301.

0506-0303 Auditing Theory and Practice

The conduct of audits of various types; the balance sheet audit; audit working papers; correction of books and preparation of audit reports. 3 s.h.

Prerequisite: 0506-0302.

0506-0307 Cost Accounting and Control I

The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making. 3 s.h.

Prerequisite: 0506-0202.

0506-0308 Cost Accounting and Control II

Estimating cost, budgets and cost, standard cost, analysis and control of costs, break-even analysis and differential cost analysis. 3 s.h.

Prerequisite: 0506-0307.

0506-0315 Organizational Behavior

Major approaches to the study of organizations. Organizational systems and structure, systems of communication, power and influence, organizational conflict, coordination and control, leadership, motivation, interpersonal dynamics and change and renewal. 3 s.h.

Prerequisite: 0506-0231 and 3 semester hours of anthropology, psychology or sociology.

0506-0316 Human Resource Management

Motivating managerial and non-managerial employees; effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees. 3 s.h.

Prerequisite: 0506-0231.

0506-0317 Motivation and Leadership

In-depth analysis of the human element; analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application; case studies. 3 s.h.

Prerequisite: 0506-0315

0506-0321 Fundamentals of Finance

The statement of sources and uses of funds; determining specific assets to acquire, and financing them. Financial institutions, debt and equity instruments of finance, short- and long-term financing, insuring against risk and uncertainty, optimum capital structure, selection of alternative investments, and dividend and interest policies. 3 s.h.

Prerequisite: 0506-0202.

0506-0322 Capital Budgeting Management

Analysis of capital expenditures under certainty and uncertainty; lease or purchase decision; mergers and acquisitions; capital reinvestment; extensive use of quantitative tools. Case studies from business situations and current readings. 3 s.h.

Prerequisites: 2204-0101, 0102; 0506-0272, 0321

0506-0326 Investment Principles

Financial assets and markets; Investor's attitude, goals and constraints; Risk-return characteristics of securities; Analysis of the company, the industry and the market and other factors affecting the risk-return combination; introduction to valuation of securities and portfolio management. 3 s.h.

Prerequisites: 2204-0101, 0102; 0506-0272; 0506-0321

0506-0332 Minorities in Business

Methods, techniques and problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms; minority group members as entrepreneurs; relationships with other members of an organization.

3 s.h.

Prerequisite: 0506-0231 or 0506-0241.

0506-0335 Small Business Management

The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.

3 s.h.

Prerequisite: 0506-0231, 0241 or 0321.

0506-0336 International Business Management

General theory on international trade; the mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.

3 s.h.

Prerequisites: 2204-0102 Micro Economics

0506-0343 Promotion and Persuasion

Promotion and persuasion as they relate to the major communications activities of marketing, personal selling and advertising. Communication theory, opinion formation, attitude change and measurement, and influence forces. (Not open to students who have completed 9506-0208 or 0506-0406 or 0452.)

3 s.h.

Prerequisite: 0506-0241.

0506-0344 Advertising Media

An opportunity to study advertising media such as newspapers, magazines, radio, television and direct mail, and to evaluate their effectiveness in terms of campaigns.

3 s.h.

Prerequisite: 0506-0343.

0506-0362 Business Economics

Managerial decision-making; the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills.

3 s.h.

Prerequisite: 2204-0101 or 0102, 0506-0231 or 0321.

0506-0363 Business and Society

Business as an institution in our pluralistic society; its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future; strengths, weaknesses and overall contribution to society; ecology, minority groups and the quantity and quality of economic growth.

3 s.h.

0506-0371 Management Information Systems

Total information systems from the perspective of organizations. Information from the management point of view; its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting.

3 s.h.

Prerequisite: 0506-0202, 0231, 0272 (or taken concurrently), 0273 (or equivalent.)

0506-0372 Management Science

The student integrates his knowledge of quantitative techniques and organizational behavior in formulating complex management problems; quantitative techniques applied to problem-solving and decision-making.

3 s.h.

Prerequisite: 0506-0202, 0231, 0272, 0273.

0506-0374 Computer Management

Optimum selection of computer hardware, software and operating systems among various alternatives, from a cost effectiveness point of view. 3 s.h.

Prerequisite: Same prerequisites as 0506-0371.

0506-0375 Operations Analysis

Mathematical and statistical methods in the analysis of specific business systems and industrial production activities; inventory control, production planning and scheduling, and capital management. Computers used to solve problems involving complex calculations. 3 s.h.

Prerequisite: 0506-0372.

0506-0386 Integrated Logistics Systems

The logistics sub-system in the economy and the firm, definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business. 3 s.h.

Prerequisite: 0506-0231, 0506-0241.

0506-0392 Business Internship

Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems. 1-3 s.h.

Prerequisite: By permission of department chairman.

0506-0401 Advanced Accounting

Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures. 3 s.h.

Prerequisite: 0506-0302.

0506-0402 Contemporary Accounting Problems

Areas of current accounting interest which include governmental and institutional accounting, fiduciaries, actuarial science, foreign operations, and estates and trusts.

Prerequisite: 0506-0401.

3 s.h.

0506-0403 Tax Accounting

A comprehensive picture of the federal tax structure; the determination of net income, credits, exemptions and rates for various taxpayers. 3 s.h.

Prerequisite: 0506-0202.

3 s.h.

0506-0404 Current Tax Problems

Advanced phases of income taxation with particular attention to corporations, partnerships and estates. 3 s.h.

Prerequisite: 0506-0403.

3 s.h.

0506-0405 Profit Planning and Control

Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production, and flexible budgets. 3 s.h.

Prerequisite: 0506-0307.

3 s.h.

0506-0407 Accounting Systems and Data Processing

Analysis of accounting systems and the organization of accounting information for use with manual and automated methods. 3 s.h.

Prerequisite: 0506-0202.

3 s.h.

0506-0409 CPA Review

Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the State of New Jersey). 0 s.h.

Prerequisite: 0506-0303.

0506-0414 Organizational Structure & Design: A Systemic Approach

Review of theories and models to conceptualize the overall structure and functioning of organizations. Application of socio-technical systems analysis to the problems facing management in the modern industrial state.

3 s.h.

Prerequisite: 0506-0315

0506-0423 Capital Structure Management

Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity, Modigliani and Miller's Hypothesis, and other leading authors' attitudes from current literature. Cost of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings: dividend policies, public offerings.

3 s.h.

Prerequisite: 0506-0322

0506-0424 Capital Management

Identifying, analyzing and solving management problems in finance, interest, theory and application; methods of financial analysis; management of working capital; financing capital expenditures; mergers and acquisitions; capital reinvestment. Cases derived from business situations and readings in current literature.

3 s.h.

Prerequisite: 0506-0321.

0506-0425 Working Capital Management

Detailed analysis of a corporation's sources and uses of short term funds; optimum levels of cash, inventory, accounts receivable, and accounts payable; depreciation; use of surplus cash, commercial paper and financial intermediaries.

3 s.h.

Prerequisite: 0506-0322

0506-0427 Security Analysis

Critical examination of investment theories; analysis of securities, primarily of private corporations; evaluations of factors affecting the return from a security; forecasting the return-risk characteristics of stocks and bonds; introduction to portfolio strategies and workable criteria for the selection (or rejection) of these securities.

3 s.h.

Prerequisite: 0506-0326

0506-0428 Portfolio Theory and Its Applications

Application of covariance principle in valuation of securities; critical look into management of risk in financial investments; application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies.

3 s.h.

Prerequisite: 0506-0427

0506-0431 Middle and First Line Management

The specific functions which Middle and First Line managers must perform in a production operation, designed so that the student upon graduation can move directly into a management position. The effects of change in management philosophies and the need to acquaint the student with these changes.

3 s.h.

Prerequisites: 0506-0231, 0506-0202

0506-0433 Entrepreneurship and Innovation

Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise; examples of successful entrepreneurship; role-playing and situational exercises.

3 s.h.

Prerequisite: 0506-0231.

0506-0434 Comparative Management Systems

Multi-national corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in newly-developed economies and in highly-industrialized economies; public corporations, non-profit organizations, mixed enterprise.

3 s.h.

Prerequisite: 0506-0231, 0315.

0506-0439 Business Policy

Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision-making under conditions of risk and uncertainty; planning and strategy in a changing environment; reconciling departmental goals and company objectives through the systems approach; the effects of corporate decisions on public policy. Case studies and simulation games. 3 s.h.

Prerequisite: Open only to seniors who have completed the required business core.

0506-0441 Consumer Motivation

Industrial and consumer buying behavior; the user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes; socio-economic and demographic variables. 3 s.h.

Prerequisite: 0506-0241.

0506-0442 Marketing Research

A broad management perspective on market research methodology. A systems approach; collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation analysis and report presentation. 3 s.h.

Prerequisite: 0506-0241, 0506-0272 (or taken concurrently).

0506-0444 Sales Management

The role of the sales manager in modern marketing; sales organization, operations, planning and analysis. Selecting and training salesmen; ethical problems and social responsibilities of a sales manager. 3 s.h.

Prerequisite: 0506-0241, 0343, or 0441.

0506-0446 Marketing Strategies

Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making; sophisticated techniques for problem-solving. Case studies help to develop an analytical posture. 3 s.h.

Prerequisite: 0506-0241.

0506-0463 Administrative Research Methodology and Analysis

Scientific investigation; data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems. 3 s.h.

Prerequisite: 0506-0272 (or taken concurrently).

0506-0464 Legal Problems of the Marketing Process

The historic and social relationships of Law and Marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal Problems of International Marketing and Distribution. 3 s.h.

Prerequisites: 0506-0241 The Marketing Process; 0506-0261 Legal Environment of Business I

0506-0474 Business Forecasting

Mathematical and econometric models for short- and long-range business forecasting. Models evaluated for accuracy; the computer as a tool in developing automated forecasting systems. 3 s.h.

Prerequisite: 0506-0272, 0273 (or equivalent).

0506-0475 Quantitative Decision-Making for Business

Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and simulation applied to typical managerial problems. 3 s.h.

Prerequisite: 0506-0231, 0241 or 0272 (or taken concurrently).

0506-0491 Business Problems

The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used for independent study. 1-3 s.h.
Prerequisite: Permission of the department chairman.

Department of Business and Distributive Education

Professor: Freeman, Froehlich, Haas, Hecht, Nanassy

Associate Professor: Rossetti, Chairman; Kruk

Assistant Professor: Graf

Assistant Professor II: McCauley, Uzzolino

The objective of the department is to prepare students to teach general business subjects in secondary schools in combination with

1. bookkeeping and accounting
2. secretarial subjects or
3. distributive education subjects such as marketing, retail merchandising and advertising

Students follow a professional sequence, qualifying them for a New Jersey Teaching Certificate.

All work in Business and Distributive Education is open to students who have never studied business subjects before entering college.

Business Education majors must complete a minimum of 400 hours of full-time related business experience, during a summer session prior to the senior year.

Distributive Education majors must complete a minimum of 800 hours of full-time related distributive occupational experiences, during two summer sessions prior to the senior year.

Phi Beta Lambda serves all Secretarial or Accounting Education majors, and the Distributive Education Club of America (DECA) all Distributive Education majors; students are required to join and participate in activities.

The department also has two honorary fraternities, Pi Omega Pi and Epsilon Delta Epsilon. Students who have achieved high academic standards are invited to become members.

Business and Distributive Education Major

I. Professional Sequence (identical for all three majors)	semester hours
Human Growth and Development	3
Educational Psychology	3
Teacher, School and Society	3
Departmental Methods	3
Junior Field Experience	1
Senior Field Experience	1
Seminar: Problems of Classroom Teaching	1
Supervised Student Teaching	8
	REQUIRED TOTAL
	25

II. Collateral courses 2204-0101, 0102 and 1701-0109 or 0110 may be applied to general education requirements

III. Specializations

Accounting and General Business Education

0506-0201, 0202	Fundamentals of Accounting I, II	3 ea
0506-0231	The Management Process	3
0506-0241	The Marketing Process	3
0506-0261, 0266	Legal Environment of Business I, II	3 ea
0506-0301, 0302	Intermediate Accounting I, II	3 ea

0506-0321	Principles of Finance	3
0838-0101	Introduction to Business	3
0838-0309	Consumer Economics	3
0838-0320	Business Communications	3
0838-0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
0838-0402	Principles and Methods of Teaching Accounting	2
0838-0406	Office Management and Procedures—Clerical	3
0838-0434	Introduction to Data Processing	3
0838-0435	Punched Card Data Processing	3
0838-0449	Supervised Business Work Experience	2

REQUiRED TOTAL 52*

Free Electives

17

*One credit allocated to professional sequence

Secretarial and General Business Education

0506-0201, 0202	Fundamentals of Accounting I, II	3 ea.
0506-0231	The Management Process	3
0506-0241	The Marketing Process	3
0506-0261, 0262	Legal Environment in Business I, II	3 ea.
0838-0101	Introduction to Business	3
0838-0203	Production Typing	1
0838-0303	Advanced Steno and Transcription	2
0838-0309	Consumer Economics	3
0838-0320	Business Communications	3
0838-0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
0838-0403	Principles and Methods of Teaching Stenography	1
0838-0406	Office Management and Procedures—Clerical	3
0838-0407	Office Management and Procedures—Secretarial	3
0838-0434	Introduction to Data Processing	3
0838-0435	Punched Card Data Processing	3
0838-0449	Supervised Business Work Experience	2

REQUiRED TOTAL 48

Free Electives

20

Distributive and General Business Education

0506-0201, 0202	Fundamentals of Accounting I, II	3 ea.
0506-0231	The Management Process	3
0506-0241	The Marketing Process	3
0506-0261	Legal Environment in Business I	3
0506-0343	Promotion and Persuasion	3
0838-0101	Introduction to Business	3
0838-0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
0838-0401	Principles and Methods of Teaching General Business	2
0840-0208	Salesmanship	3
0840-0219	Merchandise Information	2
0840-0348	D. E. Practicum I	1
0840-0411	Retail Store Math and Management	3
0840-0422	Visual Merchandising	3
0840-0423	Buying for Distribution	2
0840-0450	Supervised Work Experience I and II	2 ea.
0840-0455	Curriculum Organization and Administration—D. E.	3

REQUiRED TOTAL 50

ee Electives

18

Business Education Courses

0838-0101 Introduction to Business

The functions of business, bank services, credit, insurance, forms of business organization, location and layout, purchasing and stock control, production problems, finance and personal problems.

3 s.h.

0838-0103 Beginning Typewriting

For students with no previous instruction. Learning to touch typewrite; the typewriter as a communications tool in the preparation of basic letters, reports, tables and other applications.

2 s.h.

0838-0104 Intermediate Typewriting

Increasing speed with accuracy; applying skill in the production typewriting of business-related projects; extending competency to qualify for office employment.

2 s.h.

Prerequisite: 0838-0103

0830-0203 Production Typewriting

Taken in conjunction with Methods of Teaching Typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.

1 s.h.

Prerequisite: 0838-0104.

0830-0205 Beginning Stenography

The theory of Gregg Diamond Jubilee stenography. Learning to read shorthand fluently and to take dictation on familiar material.

3 s.h.

0838-0206 Intermediate Stenography and Transcription

Gregg stenography theory reviewed; unfamiliar dictation given at moderate speeds vocabulary building; transcription techniques.

3 s.h.

Prerequisite: 0838-0205

0838-0303 Advanced Stenography and Transcription

Taken in conjunction with Methods of Teaching Shorthand. The transcription of short hand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses.

2 s.h.

Prerequisite: 0838-0206

0838-0309 Consumer Economics

The role of the consumer in the economy with emphasis on forces affecting consumer demand; governmental and private agencies aiding the consumer; intelligent technique for buying and using consumer goods and services.

3 s.h.

0838-0320 Business Communications

Designed as an enrichment to basic communications and to advance students in business education, as well as allied areas, with an appreciation of an ability to handle oral and written communications, coupled with a proficient skill in handling up-to-date devices for processing communications.

3 s.t.

0838-0340 Foundations of Vocational Education for Business and Distributive Education

Junior professional course for business/distributive education majors. Vocational programs currently found in the secondary school setting, with emphasis on practices and principles of business and distributive education curriculum and priorities. Student observations in public schools.

3 s.l.

0838-0390, 0391 Business Independent Study I and II

Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairman.

2 s.

0838-0401 Principles and Methods of Teaching General Business

The methodology of teaching general business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures. 2 s.h.

Prerequisite: 12 hours of general business courses

0838-0402 Principles and Methods of Teaching Accounting

The history and development of accounting instruction and materials, aims and objectives in the light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required. 2 s.h.

Prerequisite: 12 semester hours of Accounting.

0838-0403 Principles and Methods of Teaching Stenography

Complements 0838-0303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the material and methods for teaching stenography. 1 s.h.

Prerequisite: 0838-0206.

0838-0404 Principles and Methods of Teaching Typewriting

Complements 0838-0204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development. 1 s.h.

Prerequisite: 0838-0203.

0838-0406 Office Management and Procedures—Clerical

Exploring current office equipment, trends and techniques. Hands-on operation of business equipment, including calculators, duplicators, dictators/transcribers and special typewriters. 3 s.h.

0838-0407 Office Management and Procedures—Secretarial

For prospective teachers of Secretarial Studies. The secretary's role in the modern office environment. Executing long-range projects, working in team situations and experiencing hands-on operation of duplicating, transcription, dictation and special typewriters. 3 s.h.

Prerequisite: 0838-0406; 0838-0203; 0838-0206

0838-0420 Field Studies for Business Education

Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited. 2 s.h.

0838-0434 Introduction to Business Data Processing

The literature and vocabulary of business data processing input and output media; types of equipment, installations, job analysis and systems development. From basic manual procedures to modern computer concepts, including business problem programming in the COBOL language. 3 s.h.

Prerequisite: 0506-0201.

0838-0435 Punch Card Data Processing

The concepts and operational techniques of punch card data processing machines including control panel wiring. The key punch, verifier, sorter, interpreter, reproducer, collator and accounting machine. 3 s.h.

Prerequisite: 0838-0434.

0838-0449 Supervised Business Work Experience

An opportunity to work full-time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program. 2 s.h.

0838-0480 Touch Shorthand in Recording Communication

Keyboard reaction patterns and theory concepts of the touch shorthand machine; developing basic skills and a knowledge of the machine's operation. Methods of presentation and organizing and evaluating a course in touch shorthand. 2 s.h.

Distributive Education Courses

0840-0208 Salesmanship

Fundamentals; some of the concepts of the behavioral sciences and finance, as well as marketing. The functions of the industrial salesman; the retail salesman. Student sales demonstrations apply the theories of selling.

3 s.h.

0840-0249 Merchandise Information

Textile and non-textile information; background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

2 s.h.

0840-0384 Practicum in Distributive Education I

Junior professional experience for Distributive Education majors. Observation of distributive education classes and DECA activities. Teaching distributive subjects in community programs and governmental agencies.

1 s.h.

Prerequisite: acceptance in teacher education program in Distributive Education.

0840-0411 Retail Store Mathematics and Management

Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

3 s.h.

0840-0422 Visual Merchandising

Principles and elements of color, line, form, texture and space as they relate to displays merchandising and advertising. Display space, lighting arrangements, improvisation of display equipment, the use of paper mache forms, seasonal displays, equipment and care of display fixtures.

3 s.h.

Prerequisite: permission of instructor (for non-majors).

0840-0423 Buying for Distribution

Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying

2 s.h.

0840-0450, 0451 Supervised Work Experience and Seminar I and II

Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress report of the ten to twelve week program. Taken in the summer, following sophomore and junior years.

2 s.h. ea

Prerequisite: 0840-0208, 0506, 0241. Distributive Education majors only

0840-0454 Principles and Methods of Teaching Distributive Education and Coordination

Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching; forms, reports and manuals planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE Club as a teaching device.

3 s.h.

Prerequisite: 0840-0455. Two years of-curricular activities with DECA.

0840-0455 Curriculum, Organization and Administration of Distributive Education

Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

3 s.h.

Department of Health Professions

Professors: Coder; Hoitsma, Chairman; Redd

Assistant Professors: Acevedo, Blanche, Davidson, Oleru, Paskert, Sahraie, Shahrokh

Instructors: Lynch, Mazzarese, Sherrard

The Department of Health Professions, a member of the Panzer School Council, offers two basic undergraduate curricula: (1) Health education and (2) allied health services. The Bachelor of Arts degree candidates in health education follow one of two options: (1) preparation for teaching health education in schools through a professional sequence of education offerings, and (2) preparation for community health positions through a selection of specialization courses.

The Bachelor of Science degree in allied health services is designed for practicing allied health specialists who have completed one or two years of post-secondary professional training in a two-year college or in other academic or clinical settings. It will offer advanced coursework appropriate to the student's allied health specialty through arrangements with a variety of cooperating institutions, and it will provide opportunities for development of collateral competencies in such areas as teaching, management and health education through the offerings of Montclair State College.

The programs are broadly based to prepare students for emerging opportunities in selected aspects of the health field; the curriculum is carefully designed to relate to our major contemporary health problems. Courses in the specialization areas are complemented by broad general education requirements. In addition, field experiences include observation of and, to some extent, participation in selected aspects of school and community health programs. The objectives of the department are:

1. to provide students with a broad selection of educational opportunities in the field of health.
2. to prepare health educators for positions in schools and communities.
3. to prepare allied health services personnel for positions in educational and clinical settings.
4. to provide programs for students planning to enter graduate studies in selected areas of the health professions.
5. to develop additional programs in the health professions field.

Health Education Major

I. Professional sequence		semester hours
A. Pre-professional Semester – Teaching Major		
2001-0101 General Psychology: Growth and Development	3	
2001-0200 Education Psychology	3	
0829-0410 Junior Field Experience	1	
0837-0401 The Teaching of Health	3	
B. Professional Semester – Teaching Major		
0829-0400 Teacher, School and Society	3	
0829-0401 Senior Field Experience	1	
0829-0402 Seminar in Professional Education	1	
0829-0411 Supervised Student Teaching	8	
C. Professional Sequence – Non-teaching Major		
0837-0350 Field Study in Health	6	
0837-0245 Field Experiences in Health	2	
0837-0460 Systems of Health Services Delivery	3	
Social and Behavioral Sciences (in addition to previous requirements)	6	
Mathematics and Sciences (in addition to previous requirements)	6	
Specialization	46-47	
0837-0101 Health for Personal Living	3	
0835-0150 First Aid	2	
0836-0207 Introduction to Safety	3	

0837-0300	Current Problems in Health	3
0837-0305	Communicable Diseases	3
0837-0310	Chronic and Degenerative Diseases	3
0837-0315	Community Health	3
1301-0182	Nutrition	3
0401-0250	Microbiology	3
0837-0210	Consumer Health	3
0837-0220	Mental Health	3
0837-0240	Foundations of Environmental Health	3
0837-0290	Human Sexuality	3
0837-0404	Tests and Measurements in Health Education	3
0837-0411	The School Health Problem	3
0837-0413	The Drug Abuse Problem or 0837-0301 Addictions and Dependencies	3-2
III. Electives		21-22

Allied Health Major

The Bachelor of Science degree in Allied Health Services constitutes an upper division program designed to build upon existing post-secondary programs of professional education which prepare practitioners for entry level credentialing in a number of allied health specialties.

Because of the diversity of these entry level training programs—even within particular specialty fields—degree requirements are based on a four year curriculum. **Students should have completed approximately half of this four year curriculum at other institutions before entering the program.** However, there will be individual variations, depending upon the student's field and the type of program he completed to qualify for licensure.

The program provides opportunities for allied health specialists to prepare for post-secondary teaching, secondary (vocational teacher certification), or for increased administrative or supervisory responsibilities in their allied health specialty areas.

The program was initiated on a pilot basis in September 1974. Because of its recent inception and its uniqueness in the State of New Jersey, some aspects of its operation have not been finalized. Interested candidates should contact the Department of Health Professions, prior to application for admission, to ascertain the appropriateness of the program for their educational and professional objectives.

General Summary of Allied Health Services Degree Requirements*

	Semester Hours		
	Technical Specialty Teaching	Secondary Teaching	Professional
A. General Professional Development	21-24	24	24
1. Communication Arts	12	12	12
2. Social Science and Humanities	9-12	12	12
B. Specialization: Allied Health Services	73-85	73-85	51-85
1. Allied Health Core	10	10	10
2. Health Professions Electives	0-6	3-6	3-6
3. Entry Level Professional Study	30-48	30-48	30-48

*Includes coursework completed before admission to the program.

4. Advanced Professional Study	2-17	--	0-17
5. Intro. to Practice of Selected Specialties	--	2-12	0-4
6. Science & Mathematics Related to Prof. Study	16-37	20-32	9-25
7. Other Related Disciplines (when applicable)	0-6	0-9	0-9
C. Teacher Preparation	21	25	--
D. Electives	0-12	0-6	20-53
TOTAL:	128	128	128**

**College General Education Requirements are included.

COURSE DESCRIPTIONS

0837-0100 Healthful Living

The achievement and maintenance of optimum personal health. Mental health, nutrition and weight control, drug use and abuse, communicable diseases, chronic and degenerative diseases, sexual adjustment, consumer health and environmental health. 2 s.h.

0837-0101 Health for Personal Living

Nature and causes of human health problems; preventive measures the individual can employ. Mental health, nutrition and weight control, physical fitness, communicable diseases, chronic and degenerative diseases, drug use and abuse, marriage and family life, and consumer health. 3 s.h.

0837-0210 Consumer Health

Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior. 3 s.h.

0837-0220 Mental Health

Provides for a study of human personality and the conditions conducive to its healthy development. Considerations are also given to the dynamics of "adjustment," causes of "maladjustment," and the nature of various emotional disorders and illnesses and their treatment. 3 s.h.

Prerequisite: A basic course in sociology, psychology, biology or anthropology.

0837-0240 Foundations of Environmental Health

A multidisciplinary exploration of man's relation to his environment. The influence of man's action on the physical environment, and the effects of alteration of environment on man's mental and physical well-being. Environmental awareness underscored by contrasting rural and urban-industrial field experiences. 3 s.h.

0837-0290 Human Sexuality

Considers the biological, psychological, sociological, and philosophical aspects of human sexuality. The human reproductive system, sexual response, contraception, psycho-sexual development, homosexuality, sex and drugs, cross-cultural sexual behavior, and prostitution. 3 s.h.

Prerequisite: A basic course in sociology, psychology, biology or anthropology.

0837-0300 Current Problems in Health

Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues, from the standpoint of recent scientific and societal developments. 3 s.h.

0837-0301 Addictions and Dependencies

Nature and causes of drug dependencies, including study of substances capable of producing dependency. Preventive measures and various approaches to treatment and habilitation of drug-dependent persons. 2 s.h.

0837-0305 Communicable Diseases

A basic course in communicable diseases. Includes study of historical background, societal implications, as well as consideration of the epidemiology of specific communicable diseases. Provides for understanding of various factors related to the diagnosis, prevention and treatment of communicable diseases.

3 s.h.

0837-0310 Chronic and Degenerative Diseases

The problems of chronic and degenerative diseases as a cause of death and disability. The nature and causes of various chronic and degenerative diseases along with the measures for their prevention and treatment.

3 s.h.

0837-0315 Community Health

A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.

3 s.h.

Prerequisite: A basic course in health.

0837-0347 Health Issues Forum

In-depth study of a health issue of current public or professional concern, including analysis of recent literature and presentations by authoritative spokesmen for significant points of view. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the Department, the course may be taken more than once.

1-3 s.h.

0837-0350 Field Study in Health

Independent study; selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency. Semester hour credit determined on an individual basis.

2-6 s.h.

Prerequisite: Registration with permission of department chairman only.

0837-0401 The Teaching of Health

For students planning to teach health education; the development and organization of major health topics; current teaching methods and techniques, and their relation to the contemporary school health instruction program.

3 s.h.

0837-0404 Tests and Measurements in Health Education

Statistical procedures and analysis of existing evaluation instruments. Measurements in cognitive, affective and psychomotor domains.

3 s.h.

0837-0411 The School Health Program

The total school health program; school health services; a healthful school environment; and the comprehensive school health education program.

3 s.h.

0837-0413 The Drug Abuse Problem

The physical, psychological, pharmacological, societal, legal and educational aspects of drug abuse. Rehabilitative and preventive measures against a background of constantly-changing conditions.

3 s.h.

0837-0445 Perspectives on Death

Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.

3 s.h.

Prerequisites: 0837-0220 Mental Health or 3 semester hours in psychology, or permission of the department chairman.

0837-0460 Systems of Health Services Delivery

The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these genera

understandings to those segments of the health services system of particular professional interest to themselves. 3 s.h.

Prerequisites: Six semester hours of course work in Health Education, or other related preparation with permission of the department chairman.

0836-0207 Introduction to Safety

Broad treatment of major safety areas, including transportation, public safety, industrial and home safety; accident causation and preventive measures currently employed; agencies and organizations involved in all facets of the safety movement. 3 s.h.

0836-0408 Driver Education

Basic course in driver education, including a comprehensive classroom phase and behind-the-wheel instruction designed specifically for the intended teacher. 3 s.h.

Note: Priority registration must be obtained through contact with instructor.

0836-0409 Advanced Driver Education

Advanced course in driver education for teachers, supervisors and administrators of driver education and traffic safety programs. Students must have certification in driver education in New Jersey. 3 s.h.

Prerequisite: 0836-0408

Note: Priority registration must be obtained through contact with instructor.

0837-0441 Health Careers

Comprehensive survey of health related occupations, with emphasis on job specifications, educational requirements, and educational and career lattices. Intended primarily for health careers educators, vocational counselors and health educators. 3 s.h.

Prerequisites: Minimum of 12 semester hours in health education, applied health science, or guidance and counseling, or permission of the instructor.

0837-0451, 0452 Core Concepts in the Delivery of Health Care

Interdisciplinary analysis of patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel. 2 s.h. ea.

Prerequisites: Six months of occupational experience in an allied health specialty field.

0837-0453, 0454 Curriculum and Teaching in Health Occupations Education

Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional programs. First semester: Classroom teaching and special instructional methods. Second semester: Clinical instruction, curriculum development, and coordination of health occupations programs. 2 s.h. ea.

Prerequisites: 2001-0200 Educational Psychology and 0837-0451-0452 Core Concepts in the Delivery of Allied Health Services I & II.

0837-0456 Field Experiences for Health Careers Educators

Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences determined by individual needs and professional objectives. 1-4 s.h.

Prerequisite: Professional licensure in an allied health specialty. 0837-0441 Health Careers (may be taken concurrently).

Department of Home Economics

Professors: Hall, Chairman; Ruslink

Associate Professors: Carol, Guthrie, Morris

Assistant Professors: Bernstein, Flint, Gold, Hudson, Kelley, Lubin, Rawlings, Taneja

Instructors: Alcaro, Brause, Mukherjee, Norris, Reilly, Silver, Skolnik, Weitz

Undergraduate courses in home economics are designed for students interested in:

1. entry-level positions in an existing or newly-emerging home economics profession;

2. a liberal arts education preparatory to future specialization and/or home and community living;
3. transferring from other institutions and/or departments and majoring in home economics;
4. home economics courses to enrich his academic background and perhaps to fulfill general education requirements;
5. background for advanced work in some area of the discipline.

The Home Economics Department believes that off-campus studies and work experience in agencies and organizations are a vital supplement to on-campus studies. Opportunities for off-campus experiences are available through required and elective courses; all home economics students are encouraged to choose at least one.

The department cooperates with the Merrill-Palmer Institute in Detroit, Michigan. Selected home economics majors spend their junior year at the Institute, receiving transfer credit for intensive study and experience in family relations and child development. Application forms are available in the Home Economics Department.

Home Economics Major

Programs of study can be planned within four curricula which lead to a variety of professional goals. Students should consult with their departmental advisors.

I. Major Core Requirements		semester hours
1301-0100	Home Economics as a Profession	3
1301-0140	The Family: An Interdisciplinary Approach	3
1301-0270, 0271	The Family: Contemporary Needs & Issues I, II	3 ea.
1301-0304	Introduction to Research	3
1301-0400	Senior Seminar	2

(Concentration in Consumer Affairs)

Lois Guthrie, Coordinator

This program prepares students for positions as consumer advocates and educators, and in liaison between business and the consumer, research and product development, and government and business. The courses are planned to develop a consumer orientation to specialization areas such as foods, housing, child development and textile products.

II. Program Requirements		semester hours
1301-0231	Family Economics .....	.....
1301-0335	Consumers in the Market .....	.....
1301-0403	Consumer Education Techniques .....	.....
1301-0409	Practicum in Home Economics .....	.....
1301-0435	Consumer Action .....	.....
1301-0445	Inner City Family .....	.....
Select three of the following:		
1301-0153	Food and Man .....	.....
1301-0160	Equipment in the Home .....	.....
1301-0220	Textile & Clothing Industry .....	.....
1301-0260	Housing .....	.....
1301-0331	Money Management .....	.....
III. Electives		36-4

(Concentration in Family and Child Studies)

Vivian Morris, Coordinator

This program is designed for those interested in exploring family and child development, enriching family life or guiding and teaching young children. Students electing the teaching sequence can fulfill New Jersey certification requirements for Preschool and Kindergarten teaching.

II. Program Requirements		semester hours
1301-0122	Clothing & Culture OR	
1301-0221	Fabrics for the Consumer	3
1301-0141	Interpersonal Relations	3
1301-0153	Food and Man OR	
1301-0255	Meal Management	3
1301-0182	Nutrition	3
1301-0214	Child Development I	3
1301-0231	Family Economics OR	
1301-0331	Money Management OR	
1301-0435	Consumer Action	3
1301-0314	Child Development II	3
1301-0315	Field Experiences in Family & Child Services	3
1301-0342	Family Sociology	3
1301-0445	Inner City Family	3
1301-0448	Family Counseling	3
III. Electives	.....	32-41

(Concentration in Foods & Nutrition)

Ruth Carol, Coordinator

This program provides students with a specialized background for food and nutrition fields in business, institutions and community agencies. Students can meet the academic requirements of the American Dietetic Association for admission to approved dietetic internships, if electives are carefully selected.

II. Program Requirements		semester hours
1301-0150	Principles of Food Preparation	3
1301-0153	Food & Man	3
1301-0182	Nutrition	3
1301-0255	Meal Management	3
1301-0445	Inner City Family	3
Electives in Foods & Nutrition		26
III. Required Collateral Courses		
1905-0107	College Chemistry I	3
1905-0130	Organic Chemistry	4
IV. Electives	.....	24-23

(Concentration in Home Economics Education)

Joan Bernstein, Coordinator

This curriculum prepares students to be educators in diversified learning environments, such as public schools, adult programs, cooperative extension and business. Graduates receive New Jersey certification to teach Home Economics K-12 and are provided with a foundation for advanced study in specialized areas of Home Economics.

II. Program Requirements		semester hours
1301-0120	Clothing Construction	3
1301-0122	Clothing & Culture	3
1301-0141	Interpersonal Relations	3
1301-0150	Principles of Food Preparation	3
1301-0160	Equipment in the Home	3
1301-0182	Nutrition	3
1301-0201	Intro to Home Economics Education	3
1301-0214	Child Development I	3
1301-0255	Meal Management	3
1301-0260	Housing	3
1301-0298	Textiles	3
1301-0435	Consumer Action	3
Home Economics Elective		3
II. Electives	.....	3-12

TRANSFER STUDENTS

Careful planning enables a student to transfer to the Department of Home Economics at Montclair State College without loss of credit. Potential transfer students should examine carefully the list of required courses in the selected major. Any student who plans to transfer for the junior year should write for suggestions or preferably call the Home Economics Department for a conference before the start of the sophomore year.

Home Economics Courses**1301-0100 Home Economics as a Profession**

Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings, for exposure to the breadth of professional opportunities.
3 s.h.

1301-0120 Clothing Construction

Applying fundamentals of clothing construction while using commercial patterns.
3 s.h.

1301-0122 Clothing and Culture

Clothing selection in terms of cultural, social, psychological and economic influences; clothing choices related to individual needs; color, design, fabric and accessories.
3 s.h.

1301-0140 The Family—An Interdisciplinary Approach

Basic insights and concepts from the social sciences used to study the history and structure of the family; its place as a basic but changing institution in modern America.
3 s.h.

1301-0141 Interpersonal Relations

Relevant and up-to-date information about significant human relationships throughout the life cycle. Traditional and contemporary forms of dating, courtship, sexual behavior and marriage.
3 s.h.

1301-0150 Principles of Food Preparation

Food selection, purchasing and preparation; principles involved in preparation of standard products.
3 s.h.

1301-0153 Food and Man

World food patterns; diverse ways in which man provides for and attaches meaning to his food; nutritional problems in the United States and the world; nutritional significance of a changing food supply.
3 s.h.

1301-0160 Equipment in the Home

Principles and resources involved in the selection, use and care of equipment in the home.
3 s.h.

1301-0182 Nutrition

The nutrients in food, their functions in the human body, and diet requirements for people in various age groups.
3 s.h.

1301-0201 Introduction to Home Economics Education

Curriculum design and methodology in all areas of Home Economics education. Field experience; visits to K-12, Extension, Vocational and Cooperative programs followed by analysis.
3 s.h.

1301-0205 Women in Contemporary Society

This historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.
3 s.h.

1301-0214 Child Development I

The preschool child (2-5 years); the major challenges confronting him as he masters the task of socialization. Supervised observation and participation with groups of preschool children.

3 s.h.

Prerequisite: 2001-0201.

1301-0215 Infant Development

The infant as a developing individual within the family. Theory and research in the area of human infancy; cognitive and emotional growth during the first two years of life.

3 s.h.

1301-0216 Techniques for the Study of Child Personality

Skills and tools to help the teacher become more aware of the needs, motivations, competencies and values of young children. Opportunities to observe and record children's activities.

3 s.h.

Prerequisite: 1301-0214

1301-0220 The Textile and Clothing Industry

Factors which spur progress, affect supply and demand, and ultimately the consumer. The history, economic structure and patterns of production, distribution and marketing of textile and clothing industries.

3 s.h.

1301-0221 Fabrics for the Consumer

Consumer needs and interests in the textile area. Products of the soft goods industries; distinctions, uses and care of materials in apparel and household fabrics.

3 s.h.

1301-0226 Advanced Clothing Construction

A conceptual approach to custom dressmaking. Projects develop a better understanding of fabric characteristics, selection of appropriate construction techniques and suitability of fashion to the individual.

3 s.h.

Prerequisite: 1301-0120 or equivalent.

1301-0231 Family Economics

The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns.

3 s.h.

1301-0248 Family Relations

The family life cycle; typical issues, emotional patterns and developmental tasks of late adolescence; courtship, adjustment in marriage, pregnancy, child rearing; later stages of parenthood and old age. Students' own relationships, values and sex roles discussed and compared with facts and trends of American society.

3 s.h.

301-0252 Organization and Management of Food Service Systems

Principles of management; organizational structure, policy and decision-making; the menu in management, budgeting and cost control; sanitation and safety; personnel policies and management.

3 s.h.

Prerequisite: 1301-0255 and 0506-0201

301-0253 Quantity Food Purchasing and Production

Determining needs, purchasing, storing, preparing and serving food in large volume.

3 s.h.

Prerequisite: 1301-0252 and 1301-0255. 1301-0254 may be taken concurrently.

Prerequisite: 1301-0252. 1301-0253 may be taken concurrently.

301-0254 Food Service Equipment

Selection of equipment based on needs of the food service system. Purchasing procedures.

3 s.h.

Prerequisite: 1301-0252. 1301-0253 may be taken concurrently.

301-0255 Meal Management

Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.

3 s.h.

Prerequisites: 1301-0150 and 0182.

1301-0260 Housing

The housing needs of today's families from an economic, social and psychological premise. The organization of living space, selection and use of materials to meet the needs of the family throughout the life cycle.

3 s.h.

1301-0265 Interior Design

The selection, organization and evaluation of furnishing for the residential environment related to everyday life and individual needs. Design elements of line, form, light, color, texture and ornament in relation to interior space.

3 s.h.

1301-0270 The Family: Contemporary Needs and Issues I

1301-0271 The Family: Contemporary Needs and Issues II

Ways in which families of different compositions and socio-economic levels solve problems relating to needs and issues: food, shelter, financial protection; leisure time, consumer responsibility and changing roles. Not open to freshmen.

6 s.h.

1301-0282 Community Nutrition

The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.

3 s.h.

Prerequisite: 1301-0182.

1301-0298 Textiles

Selection and buying of textiles for clothing and household purposes; fibers, fabrics and finishes. Consumer education and factors relating to durability, uses, care, cost and textile economics.

3 s.h.

1301-0300 Field Trip Experiences in Home Economics

An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers.

1 s.h.

1301-0301 Volunteer in the Community

The role of the volunteer solving the socio-economic-civic-educational problems facing individuals and families; volunteer participation as an individual and in groups. 2-4 s.h.

1301-0302 Nutrition Education Techniques

Procedures and techniques for teaching nutrition to youth and adults; individual, group and mass methods.

3 s.h.

Prerequisite: 1301-0182 or equivalent.

1301-0304 Introduction to Research

Helps students become aware of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Opportunity for individual groups to plan and execute a small empirical inquiry. Not open to freshmen.

3 s.h.

1301-0306 Management in the Secondary School Curriculum

Identifying managerial competencies and integrating them into the home economic curriculum.

2 s.h.

Prerequisite: 1301-0370 or 1301-0270, 0271.

1301-0307 Vocational Education

Principles and practices of vocational education including history, development, organizations and objectives; observations in vocational education programs.

2 s.h.

1301-0308 Independent Study

Advanced areas of home economics not offered in the regular curriculum.

1-3 s.

Prerequisite: Junior or senior standing.

1301-0309 The Teaching of Home Economics

Curriculum development; materials and teaching strategies appropriate to home economics. To be taken the semester prior to student teaching. 0829-0410 Field Experience in Education must be taken concurrently.

3 s.

1301-0314 Child Development II

The psychological needs of the child; practices of care and guidance of young children. Feelings, attitudes and values in the management of specific behavioral patterns. 3 s.h.
Prerequisite: 1301-0214.

1301-0315 Field Experiences in Family and Child Services

Planned supervised experiences in selected agencies offering services for families and children. 3 s.h.
Prerequisite: 30 hours of Family and Child Studies courses.

1301-0317 Creative Experiences in Early Childhood

Direct experiences in the areas of art, music and science for the pre-schooler. 3 s.h.
Prerequisite: Junior or senior standing.

1301-0318 Program Planning in Early Childhood Education

Principles of curriculum development for planning pre-school programs. 3 s.h.
Prerequisite: 1301-0214. To be taken the semester prior to student teaching. 0829-0410
Field Experience in Education must be taken concurrently.

1301-0319 Language and Literature for Young Children

The qualities of children's expression through language: books, stories and poems; criteria for evaluating material for the pre-school program. Not open to freshmen. 3 s.h.
Prerequisite: Junior or senior standing.

1301-0320 Historical Analysis of Costume

The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen. 3 s.h.
Prerequisite: Junior or senior standing.

1301-0322 Field Visits to Clothing and Textiles Firms

Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise. Permission of instructor required. 1 s.h.
Prerequisite: Junior or senior standing.

1301-0323 Fabrics and Fashion

Fiber, yarn, construction and finish related to product potential and to satisfying consumer needs and purposes. Fashion materials including feather, fur and lace; textile goods such as floor coverings, household linens and children's apparel. 3 s.h.
Prerequisite: 1301-0298 or 0220 or 1301-0221.

1201-0331 Money Management

The role and meaning of money in individual and family living; income as a means of acquiring a style of life; the effective control of income in spending, saving, credit purchases and providing for future needs. Not open to freshmen. 3 s.h.
Prerequisite: Junior or senior standing.

1301-0335 Consumers and the Market

The consumer perspective of the marketplace; advertising, selling practices, promotion, warranties, etc., as they affect the acquisition of goods and services. Not open to freshmen. 3 s.h.
Prerequisite: Junior or senior standing.

1301-0342 Family Sociology

Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society; the impact of rapid social change on the American family. Not open to freshmen. 3 s.h.
Prerequisite: Junior or senior standing.

301-0345 Sex Roles in a Changing World

Sex role development and stereotypes that exist in our society and cross-culturally. 3 s.h.
Prerequisite: 1301-0141 or 0248.

301-0357 Experimental Foods

Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products. 3 s.h.
Prerequisites: 1905-0107, 0130 and 1301-0150.

1301-0370 Individual and Family Problem-Solving

Dealing with daily living through increased competence in decision-making and problem-solving in a variety of life styles. Not open to freshmen. 3 s.h.

1301-0384 Nutrition in Developing Countries

Nutritional problems; factors which contribute to malnutrition; effect of under-nutrition and malnutrition; methods of assessing nutrition status of a population and application of measures for improvement. 3 s.h.

Prerequisite: 1301-0182.

1301-0389 Advanced Nutrition

The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of men; evaluation and interpretation of research findings. 3 s.h.

Prerequisite: 1301-0182, 0401-0242 or 1905-0435. 1905-0435 may be taken concurrently.

1301-0400 Senior Seminar

The role of professional home economists in meeting contemporary societal needs; problems of entry into the field. 2 s.h.

Prerequisite: Senior standing.

1301-0402 Adult Education in Home Economics

For home economists interested in teaching adults in school, community and extension programs; understanding the adult learner and developing appropriate programs and teaching strategies. Observations in adult education programs.

Prerequisite: 1301-0309.

1301-0403 Consumer Education Techniques

Curriculum development, teaching strategies, resources and materials related to teaching consumer education. 3 s.h.

Prerequisite: 1301-0435 or equivalent.

1301-0404 Evaluation in Home Economics

The philosophy, purpose and variety of techniques for gathering and weighing evidence; evaluating home economics programs and their objectives. Students may focus on local, state and federal programs and their special accountability processes.

Prerequisite: 1301-0309.

1301-0405 Home Economics in the Middle School

Philosophy and organization of home economics in the middle school. Supervisory techniques and curriculum development examined as a basic for designing courses. 3 s.h.

Prerequisite: Classroom or student teaching experience.

1301-0406 Occupational Education in Home Economics

Field experiences in programs where home economics skills are applied to wage-earning. Curriculum development, roles of the home economist occupational teacher-coordinator, and supervision of students enrolled in wage-earning programs. 2 s.h.

Prerequisite: 1301-0309.

1301-0407 Teaching Family Living in the Public Schools

Subject matter and strategies for teaching family living as an integral part of the home economics curriculum. 3 s.h.

Prerequisite: One course in family relations.

1301-0408 Workshop in Home Economics

Opportunity to study selected current problems in the field of home economics. 3 s.h.

1301-0409 Practicum in Home Economics as a Profession

Opportunity to work as a trainee with a professional home economist in business, community agency or an organization. 8 s.h.

Prerequisite: Senior standing.

1301-0414 Organization and Management of Child Care Centers

Developing a sound program in a modern pre-school center; the learning process and the professional staff; the organization and administration; the relationship of the school to community services and agencies. 3 s.h.

Prerequisite: 1301-0214; junior or senior standing.

1301-0415 The Child in the Community

The attitudes, mores and values of family and neighborhood life as determinants of the child's adaptation to school; growing up in families of deviant patterns; specialists and agencies in the community. 3 s.h.

Prerequisite: 1301-0214; junior or senior standing.

1301-0418 Parent Education

Establishing a positive team approach between the parent and teacher; parent-teacher interaction; how the teacher interprets parental anxieties, and conducts individual conferences and group meetings. 3 s.h.

Prerequisite: junior or senior standing.

1301-0419 Special Studies in Family and Child Services

Exploring special concerns in the area of family life and child development. 3 s.h.

Prerequisite: 30 hours in family and child studies courses.

1301-0422 Draping

Design principles and fabric properties, figure types, and fashion interest; draping fabric on a three-dimensional body and form for interpretation of design. 3 s.h.

Prerequisite: 1301-0120.

301-0424 Tailoring

The concepts, procedures and skills of custom tailoring; techniques of fine as well as speed processes; comparing and evaluating custom and factory-made garments. 3 s.h.

Prerequisite: 1301-0120.

301-0426 Flat Pattern Design

Flat pattern design in developing original designs for apparel. A basic pattern is used to execute designs related to the use of fabric on a human form. 3 s.h.

Prerequisite: 1301-0120.

301-0435 Consumer Action

The market place as a social, psychological and economic institution serving families; ends and current issues which affect the quality of goods and services. 3 s.h.

Prerequisite: Economics course.

301-0444 The Social Challenge of Aging

The change over the adult life span as it affects family interaction and resources in various subcultures; implications for social policy and institutions relative to an increasing aging population. 3 s.h.

Prerequisite: One course in the family area.

301-0445 The Inner City Family

Sub-cultures residing in large cities; the impact of urbanization, ethnicity, social and economic institutions; problems which families encounter. Community contact is part of the course. 3 s.h.

Prerequisite: junior or senior standing.

301-0448 Family Counseling

Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts. 3 s.h.

Prerequisite: 30 semester hours in Family and Child Studies courses.

1301-0456 Research in Foods

Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research. 3 s.h.
Prerequisite: 1301-0357.

1301-0471 Time Management

Time as a dimension of life related to values in social systems and subcultures; changing demands and pressures on time; an analysis of personal time use. 3 s.h.
Prerequisite: 1301-0270 or 1301-0370.

1301-0488 Diet Therapy

The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal. 4 s.h.
Prerequisite: 1905-0435, 0401-0250 and 0242, 1301-0389.

1301-0489 Externship in Foods and Nutrition

A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community. 3 s.h.
Prerequisites: 1301-0282; 1301-0253; 1301-0302; 1301-0389.

Department of Industrial Education and Technology

Professor: Earl

Associate Professors: Olsen; Pinder; Rosser, Chairman; Van Benschoten

Assistant Professors: Browning, Dorner, Greenwald, Rehorn, Schumm,
Walencik

Instructors: Atkins, Bruno, Goodall

The department offers a Bachelor of Arts degree in Industrial Education and Technology (State of New Jersey certification, K-12). The department also offers certification in Vocational-Technical Education and post-baccalaureate Industrial Arts.

Industrial Education is a comprehensive fifty-hour major, providing technical experience through exposure to all curriculum areas; students select two for depth study. The areas of specialization include design, drafting, graphic arts, woods, plastics metals, electronics and power. Students are encouraged to gain industrial experience during their college years. Credit is given for industrial experiences in the summer.

Industrial Education and Technology courses are identified by the department prefix 0990. The prefix 0839 indicates professional courses in the Industrial Education and Technology teacher education major. There are prerequisites for all courses beyond the 200 level with the exception of the 490 series.

Industrial Education and Technology Major

I. Professional Sequence

II. Requirements

0990-0110	Foundations of Design	3
0990-0120	Graphic Communications	3
0990-0130	Foundations of Industry-Graphic Arts Communications ..	3
0990-0140	Foundations of Industry-Woods	3
0990-0250	Foundations of Industry-Plastics	3
0990-0260	Foundations of Industry-Metals	3
0990-0270	Electricity Fundamentals	3
0990-0280	Power Systems and Energy Sources	3
0839-0301	Technology and Culture: Past, Present and Future ..	3
0839-0302	Curriculum and Teaching of Industrial Education	3

III. Industrial Education Electives (2 areas minimum) 23

IV. Free Electives 13-22

VOCATIONAL-TECHNICAL TEACHER EDUCATION PROGRAM . . . This program offers courses and advisement for students wishing certification to teach vocational-technical subjects in secondary schools. Candidates must certify high school graduation or equivalency, experience in the trade, industrial occupation or profession to be taught, and approved training in that field. The program offers professional education, general background courses and supervised in-service teaching.

COURSE DESCRIPTIONS

0990-0110 Foundations of Design

Creativity, brainstorming, problem-solving and analysis-consideration; application to practical problems in designing with materials. 3 s.h.

0990-0120 Graphic Communications

Knowledge, skill, graphic method, execution of technical drawing and impact of automation. 3 s.h.

0990-0130 Graphic Arts Communication

Major printing processes. Use of type, composition, proofing, imposition, platen press, screen process and basic lithography. 3 s.h.

0990-0140 Foundations of Industry-Woods

Wood product industries: emphasis on lumber industry, hand and machine tool operation and basic finishing processes. 3 s.h.

0990-0250 Foundations of Industry-Plastics

Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety. 3 s.h.

0990-0260 Foundations of Industry-Metals

Concepts and processes involving metallic materials through laboratory experiences. 3 s.h.

0990-0270 Electricity Fundamentals

Basic concepts of electricity and their application in the world. 3 s.h.

0990-0280 Power Systems and Energy Sources

Power sources such as jets, rockets, turbines and hydraulics. An overview of the design, development, function and operation of energy sources such as fuel cells, solar cells and thermo-electric generators. 3 s.h.

839-0301 Technology and Culture: Past, Present, and Future

A chronological study of technology and its impact on world culture. Emphasis on the influence of the Western Hemisphere during the last 300 years and the world of the future. 3 s.h.

839-0302 Curriculum and Teaching of Industrial Education

Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation. 3 s.h.

990-0307 Technical Writing

Preparation of technical material for publication. Prior registration requested. 3 s.h.

990-0321 Industrial Drafting

Concepts, principles, skills of contemporary industrial practices and processes. 3 s.h.

990-0332 Technical Illustration

Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration. 3 s.h.

0990-0323 Architectural Drafting—Residential

Graphic communication; house construction principles; planning and specification writing. 3 s.h.

0990-0331 Letterpress Reproduction

Fundamentals of letterpress printing. Emphasis on historical development, layout, type styles, type cases, spacing, composition, proofing, lock-up, imposition, manual and automatic press operation. 3 s.h.

0990-0332 Screen Process Reproduction

Screen process printing and elementary line photography; hand-cut films, photographic films and process. 3 s.h.

0990-0333 Black & White Photography

Photographic processes of continuous tone photography. Darkroom construction, chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs. 3 s.h.

0990-0341 Machine Woodworking

Shaping wood materials by portable and machine operations; maintenance, jig and fixture design. 3 s.h.

0990-0342 Cabinet Construction

All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets. 3 s.h.

0990-0351 Plastic Molding and Forming I

Manipulative processes; injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety. 3 s.h.

0990-0352 Plastic Molding and Forming II

Manipulative processes; extrusion, blow molding and thermoforming. 3 s.h.

0990-0353 Plastic Molding and Forming III

Manipulative processes, bonding, laminating, encapsulation, foaming, coating, expanding and reinforcing. 3 s.h.

0990-0361 Machine Metal Technology

Machine metalwork; layout, machining and control laboratory activities. 3 s.h.

0990-0362 Machine Tool Technology

Machine tool concepts, processes and applications. Gear cutting, tracer lathe and experimental machining techniques. 3 s.h.

0990-0363 Metal Casting Technology

Contemporary industrial metal casting techniques. Laboratory activities. 3 s.h.

0990-0371 Electronic Fundamentals

Circuit conditions; analysis of electronic concepts, theoretically and experimentally. 3 s.h.

0990-0372 Electron Tubes and Semi-conductors

Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions. 3 s.h.

0990-0380 Basic Automotive Mechanics

Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems. 3 s.h.

0990-0381 Automotive Engines and Power Trains

Detailed engine operation, engine component design criteria and service procedure. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials. 3 s.h.

0990-0382 Automotive Fuel and Electrical Systems

Operation, maintenance, testing and servicing of fuel system, ignition systems and electrical systems. Emission control devices studied in conjunction with carburetion. 3 s.h.

0990-0383 Automotive Suspension Systems and Brakes

Maintenance and service of drum and disc brakes and suspension systems. Study of various suspension systems, wheel balancing techniques systems and automotive air conditioning. 3 s.h.

0990-0406 Independent Study in Industry I, II or III.

Individual study problem with faculty guidance and sponsorship. Application required. Can be repeated three times. 1-3 s.h. ea.

0839-0408 In-service Supervised Teaching Seminar

For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required. 8 s.h.

0990-0408 Field Studies of Industry

Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry. 2 s.h.

0990-0409 Cooperative Industrial Work Experience I, II or III

Study of the industrial world through the skills, attitudes and knowledge of working. Available summers only, by prior registration. Can be repeated three times, if experience is different or in depth. Open to all college students. 2 s.h. ea.

0990-0411 Design in Industry

Designers' approach to design products applicable to mass production techniques. 3 s.h.

0990-0422 Engineering Graphics

Exploration of descriptive geometry with orthographic projection; system identification of 3D data for applied engineering problems. 3 s.h.

0990-0423 Architectural Design and Engineering

Basic aesthetic, functional and structural design; residential and light building structure. Environmental control, lighting, wiring, waste and utility systems. 3 s.h.

0990-0431 Offset Lithography

Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork. 3 s.h.

0990-0432 Advanced Offset Lithography

Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densimetric control. 3 s.h.

0990-0433 Color Photography

Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densimetric control. 3 s.h.

0990-0434 Color Separation

Color separation in graphic reproduction. Light, color films, sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densimetric measurements, screens, screen angles and press operation. 3 s.h.

0990-0441 Wood Technology

Origins, developments and advances in woods and properties, manufacturing processes and occupational information. 3 s.h.

0990-0442 Residential Construction

Residential construction materials and processes. 3 s.h.

0990-0451 Plastics Technology

Advanced technology in injection, compression, transfer and epoxy molding; extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application.

3 s.h.

0990-0461 Manufacturing & Production Technology

Mass production techniques. Market analysis, manufacturing and production control.

3 s.h.

0990-0466 Welding Technology

Working knowledge of arc and gas welding. Provides New Jersey Welding Certificate upon successful completion.

3 s.h.

0990-0471 Electronic Circuit Applications

The effect of characteristic change on basic electrical circuits.

3 s.h.

0990-0472 Industrial Electronic Circuits

Complex industrial and commercial circuit application through theoretical analysis and laboratory experimentation.

3 s.h.

0990-0373 Introduction to Logic Machines

Computes and mentors: effect on industry and society; construction and operation.

3 s.h.

0990-0482 Fluid Power

Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently-used components and circuitry.

3 s.h.

0990-0468 Advanced Welding Technology

Advanced study of concepts and processes including MIG and TIG welding, pipe welding, sheet metal welding, special welding processes and techniques, maintenance of equipment, inspecting and testing welds, and welders' qualifications. New Jersey State Welding Certification required.

3 s.h.

0990-0483 Fluidics

Fluidic devices and systems. Computation, logic and control.

3 s.h.

0990-0490 Jewelry and Lapidary

Jewelry and lapidary processes, design and materials.

3 s.h.

0990-0491 Construction Technology

Introduction to a systems approach to teaching about the construction segment of industrial technology.

3 s.h.

0990-0492 Manufacturing Technology

Introduction to systems approach to teaching about the manufacturing segment of industrial technology.

3 s.h.

0990-0499 Recreation Crafts

Recreation crafts in relation to program development, materials, supplies and equipment.

3 s.h.

Department of Physical Education

Professors: Pearson, Chairman; Tews; Wacker

Associate Professors: De Rosa, Ferris, Horn, Schleede

Assistant Professors: Desiderioscioli, Crossman, Lucenko, Simmons, Toth

Instructors: Hennis, Owen, Schnable, Taigia

The Department of Physical Education, a member of the Panzer School Council offers program in:

Physical Education

Physical Education and Health

Recreation Professions

The specific objectives are:

1. to develop those traits, qualities, and characteristics which will enable a student to function effectively as an individual, in his area of professional specialization and as a member of his community.
2. to supply leadership in programs of physical education, athletics and recreation for schools, camps, playgrounds, recreation centers and other agencies.
3. to provide a broad program of physical activity so that all students in the College can develop and understand physical education values, develop skills for use in leisure hours and derive physical fitness and recreational benefits.
4. to offer all students opportunities for expression through participation in intra-mural and intercollegiate competition in sports, and non-sport activities.

Physical Education Major

	semester hours
I. Requirements	51
0837-0101 Health for Personal Living	3
0835-0201 Physiology of Exercise	2
0835-0202 Dev., Phil., & Principles of P.E.	3
0835-0204 Kinesiology	2
0835-0230 Camping and Outdoor Education	2
0835-0301 Adapted Physical Education	3
0835-0305 Meas. and Eval. in P.E.	2
Two Team Sports	2
0835-0111 Men's Aquatics or 0312 Lifesaving or 0313 WSI	1
0835-0113 Men's Gymnastics & Tumbling	2
0835-0119 Men's Gymnastic Elective	2
0835-0219 Men's Wrestling	1
0325-0118 Women's Aquatics or 0312 Lifesaving or 0313 WSI	1
0835-0112 Women's Gymnastics & Tumbling	2
0835-0114 Women's Gymnastic – Elective	2
1008-0240 Modern Dance	1
0835-0224 Basic Motor Learning	2
0835-0226 Movement Ed. and Rhythm	1
0835-0302 Non-Sport Activities for Primary Grades	1
Individual and Dual Sport Electives	4
Dance Elective	1
Elementary School P.E. Elective	1
Physical Education Electives	16
I. Free Electives	7
I. Professional Seq. for Teacher Ed. Certification	24
A. Prior to Student Teaching	11
2001-0101 Human Growth & Development	3
2001-0200 Educational Psychology	3
Ed. Elective: Jr. Field Experience	1
0835-0317 Teaching of Physical Education	4
B. Professional Semester	13
Teacher School Society	3
Student Teaching	8
Senior Field Experience	1
Seminar	1

PROFESSIONAL LABORATORY EXPERIENCE REQUIREMENT

Each student is required to make two visitations in each of five activity courses for a total of ten visits to be completed in the first two years. The observations may be in any course in the curriculum categories of Team Sports, Individual and Dual Activities, or Rhythms and Dance.

Physical Education and Health Major

I. Requirements

0837-0101	Health for Personal Living	3	
0835-0201	Physiology of Exercise	2	
0835-0202	Dev., Phil., & Principles of P.E.	3	
0835-0204	Kinesiology	2	
0835-0230	Camping and Outdoor Education	2	
0835-0301	Adapted Physical Education	3	
0837-0401	Teaching of Health	3	
0835-0305	Meas. and Eval. in P.E.	2	
	Two Team Sports of Choice	2	
0835-0111	Aquatics or 312 Lifesaving or 313 WSI	1	
0835-0113	Men's Gymnastics & Tumbling	2	
0835-0119	Men's Gymnastic Elective	2	
0835-0219	Wrestling	1	
0835-0118	Aquatics or 312 Lifesaving or 313 WSI	1	
0835-0112	Women's Gymnastics & Tumbling	2	
0835-0114	Women's Gymnastic Elective	2	
1008-0240	Modern Dance	1	
0835-0224	Basic Motor Learning	2	
0835-0226	Movement Education and Rhythm	1	
0835-0302	Non-Sport Activities for Primary Grades	1	
	Individual and Dual Sport Electives	4	
	Dance Elective	1	
	Elementary School P.E. Electives	1	
0837-0210	Consumer Health	3	
0837-0220	Mental Health	3	Select one
0837-0240	Foundations of Environmental Health	3	
0837-0290	Human Sexuality	3	
0837-0305	Communicable Diseases	3	
0837-0310	Chronic and Degenerative Diseases	3	Select two
0837-0315	Community Health	3	
0837-0411	The School Health Program	3	
0837-0413	The Drug Abuse Program	3	Select one
0837-0301	Addictions and Dependencies	2	
	Physical Education Elective	2	
			—
	REQUIRED TOTAL	54	
II. Free Electives		3	
III. Professional Sequence		24	

Physical Education Courses

0835-0100 American Folk and Square Dance

Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.

1 s.

0835-0101 Field Hockey

Individual skill development in hockey; analysis, team tactics, offensive and defensive strategy and rules; practical application in game situations.

1 s.

0835-0104 Coaching Swimming and Diving

Practical knowledge of coaching swimming and diving; coaching theory, the perfecting of skills and conditioning procedures.

1 s.

0835-0105 Football

The history, development and present status of the sport; basic skills and game strategies and specific techniques concerning class organization, safety and evaluation.

1 s.

0835-0106 Women's Basketball

Learning experiences in the skills and techniques of basketball; rules, offensive and defensive team strategy. 1 s.h.

0835-0107 Men's Basketball

Methods, theory, skill testing and conditioning procedures. 1 s.h.

0835-0108 Women's Soccer

The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented. 1 s.h.

0835-0109 Men's Soccer

The course provides the opportunity to learn and develop the basic and fundamental skills of soccer. 1 s.h.

0835-0110-0111 Aquatics

For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions. 1 s.h.

0835-0112 Women's Gymnastics and Tumbling

To develop skill in tumbling and gymnastics and demonstrate an understanding of skill levels appropriate for elementary and high school grades. Safety measures concerning equipment and spotting. 2 s.h.

0835-0113 Men's Gymnastics and Tumbling

Develop skill in tumbling and gymnastics and demonstrate an understanding of skill. Levels appropriate for all grade levels. Safety measures concerning the equipment and spotting. 2 s.h.

0835-0115 Men's Baseball and Softball

Methods, theory, skill testing and class organization for effective teaching of baseball and softball. 1 s.h.

0835-0116 Women's Softball

Skills, techniques, rules and concepts of team play and strategy essential to this sport; playing the game. 1 s.h.

0835-0117 Men's Lacrosse

History, development and present status of the sport; developing basic skills and learning game strategy, rules and specific techniques of class organization, safety and evaluation. 1 s.h.

0835-0118 Women's Lacrosse

History, development and present status of the sport; developing basic skills and learning game strategy, rules and specific techniques of class organization, safety and evaluation. 1 s.h.

0835-0119 Men's Gymnastics For Secondary Schools

Methods and materials in gymnastics for secondary school physical education. The organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics. 2 s.h.

Prerequisite: 0835-0113

0835-0120 Bowling

The history, rules, techniques, strategies, terminology and rules are discussed and students attend classes at bowling alleys for practical experience. 1 s.h.

0835-0121 Gymnastics for Elementary School (co-ed)

The methods and materials in Gymnastics for elementary schools through a sensorimotor approach to learning and performance. 2 s.h.

Prerequisite: 0835-0112 or 0835-0113

180 / Physical Education

0835-0122 Golf

To permit students to attain the minimum skill necessary for enjoying this individual type of game. 1 s.h.

0835-0124 Badminton

A comprehensive analysis of the techniques and skills of each sport; current trends, rules, terminology, equipment and game strategy. 1 s.h.

0835-0126 Archery

The development and present status of archery; basic skills, tournament strategy and rules. 1 s.h.

0835-0128 Fencing

The history, rules, skills, progression and teaching techniques of fencing presented to physical education majors. 1 s.h.

0835-0130 Tennis

The development and present status of this sport; basic skills, learn game strategy and rules. 1 s.h.

0835-0131 Fitness Activities

A sound developmental program designed both for the individual who is below par in strength or physical capacity and for the conditioned individual. 1 s.h.

0835-0133 Men's Track and Field

Techniques of performance for teaching all track and field activities commonly performed in high schools (if time permits, cross-country, performance and scoring will be covered). 1 s.h.

0835-0150 First Aid

A lecture and practice course designed to acquaint the student with first-aid procedures and the prevention of accidents or sudden illness on the field or in the gymnasium American Red Cross standards. 2 s.h.

0835-0201 Physiology of Exercise

The physiological effects of activity upon the human organism; the reaction of exercise of speed, strength and endurance upon the circulatory, respiratory and muscular systems; the causes of fatigue, staleness and exhaustion. 2 s.h.

Prerequisite: Anatomy & Physiology

0835-0202 Development, Philosophy and Principles of Physical Education

History and development from primitive to modern times. Principles of physical education in the light of scientific knowledge, aims and objectives; the place in the total educational program. May not be taken until the junior year. 3 s.h.

0835-0204 Kinesiology

Analysis in depth of the anatomy of the skeletal and muscular systems; the physical principles of movement and the anatomical derivation of motion; utilizing this knowledge in teaching and coaching. 2 s.h.

Prerequisite: Anatomy & Physiology

0835-0210 Officiating of Volleyball

Rules and officiating techniques currently used in volleyball. 1 s.h.
Prerequisite: Course in Beginning Volleyball or permission of instructor.

0835-0212 Officiating of Field Hockey

Rules and officiating techniques currently used in Field Hockey. 1 s.h.

0835-0123 Group Interaction in a Recreational Setting

Handling small and large groups of people in a social situation; needs of all age groups; ice-breakers and mixers, seasonal events, active and quiet parties, skits and dances. 3 s.h.

0835-0214 Leisure Pursuits, a Cultural Phenomenon

The psychological and sociological implications of play related to the growth and development of children and young people. The effect of play on society through the ages, as well as the attitudes of society toward play; evaluating play in relation to social and psychological issues.

3 s.h.

0835-0215 Coaching – Principles and Problems

A practical guide to ethics, principles and organizational problems of coaching. Provides the beginning coach with the information necessary to help him deal effectively with common problems of athletic competition.

3 s.h.

0835-0216 The Mechanics of Athletic Performance

Designed for the non-physical education major who is interested in athletic coaching; the mechanics of human performance.

3 s.h.

Prerequisite: 0835-0220 Anatomy & Physiological Foundations of Coaching

0835-0219 Wrestling

The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.

1 s.h.

0835-0220 Anatomical and Physiological Foundations of Coaching

Designed for the non-physical education major who desires to coach athletics on the elementary or secondary level.

3 s.h.

0835-0221 Social Dance

Traditional as well as modern forms of ballroom dancing. Opportunities to teach, to plan formal and informal dances. Courtesies and social standards are also covered.

1 s.h.

0835-0222 Officiating of Women's Softball

Rules and officiating technique currently used in Softball.

1 s.h.

0835-0223 European Folk Dance

Traditional dances of foreign countries, such as Denmark, Sweden, Germany, England and Poland; the culture, costuming and historical basis of dances.

1 s.h.

0835-0224 Basic Motor Learning

The physical and psychological factors related to motor learning in physical education activities; the role of the teacher in facilitating motor skill equipment.

2 s.h.

0835-0225 Coaching Football

Techniques and methods of coaching football with emphasis on team play: offensive and defensive method—for running, passing and kicking game. Complete organization of a football game.

2 s.h.

Prerequisite: 0835-0105

0835-0226 Movement Education and Rhythm

Recognizing and developing one's own innate capacity for natural, coordinated movement. Theory, material and methods for the developing of correct movement and rhythm in the elementary and secondary schools. Creativity will be encouraged and percussion instruments and other median will be used for accompanying movement.

1 s.h.

0835-0227 Coaching Men's Basketball

The offensive and defensive strategy of basketball; rules and techniques of officiating, and their application.

2 s.h.

Prerequisite: 0835-0107

0835-0229 Women's Track and Field

Technique for performance and analysis of all areas of track and field activity as well as cross-country.

1 s.h.

0835-0230 Camping and Outdoor Education

This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education; introduction to recreational (individual and small group), and organized camp. 2 s.h.

0835-0231 Coaching of Men's Baseball

Individual skills and team techniques of coaching baseball; administration and organization of practice sessions for effective learning. 2 s.h.

Prerequisite: 0835-0115

0835-0232 Officiating of Women's Basketball

Rules and officiating techniques currently used in women's basketball. 1 s.h.

0835-0233 Coaching of Wrestling

The techniques and methods of coaching wrestling; developing programs, mat tactics and strategy. 2 s.h.

Prerequisite: 0835-0219

0835-0234 Rhythms for Elementary School Children

Materials and methods for teaching various rhythms to elementary school children; fundamental movements, singing games, creative movements, routines to music with ropes, balls, exercises, wands, hoops, lummi sticks and formation of a rhythm band. 1 s.h.

0835-0235 Coaching of Men's Soccer

The fundamental concepts of coaching soccer on the interscholastic level; physiological and psychological effects of participation. 2 s.h.

Prerequisite: 0835-0109

0835-0237 Advanced Women's Basketball

An analysis of the individual skills of basketball; game concepts, instructional techniques and basic team strategies. 1 s.h.

Prerequisite: 0835-0106

0835-0239 Advanced Women's Volleyball

Advanced skills, various offensive and defensive strategies; advanced team play. Practice procedures, formation, techniques and evaluative criteria with regard to class organization. 1 s.h.

Prerequisite: 0835-0102

0835-0240 Coaching of Field Hockey

Concepts and organizational procedures for coaching field hockey; skills, offensive and defensive strategies and rules. 2 s.h.

Prerequisite: 0835-0101

0835-0241 Games for Elementary School Children

Game materials for grades K-8, methods and techniques of organization and selection of appropriate materials for each grade level. Safety procedures, planning and evaluation. 1 s.h.

0835-0242 Coaching of Women's Softball

Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules. 2 s.h.

Prerequisites: 0835-0116

0835-0244 Coaching Women's Basketball

Coaching basketball at all levels of competition. Individual advanced skills, team strategies and educationally sound coaching techniques. 2 s.h.

Prerequisite: 0835-0106

0835-0246 Aquatic Art

The creative development of strokes, stunts, and styles of swimming utilized in aqua art. Patterns, formations, staging, costuming, selection of music and conditioning and training techniques. 2 s.h.

0835-0247 Coaching of Volleyball

Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach. 2 s.h.

Prerequisite: 0835-0102

0835-0248 Advanced Women's Softball

Advanced skills and team strategies. Theory, skills and concepts of the game in a practice situation. 1 s.h.

Prerequisite: 0835-0116

0835-0249 Advanced Field Hockey

Advanced skills and team strategies. Analysis of skills, actual teaching experience, selection and care of equipment. 1 s.h.

Prerequisite: 0835-0116

0835-0250 Women's Gymnastics For Secondary School

Methods and materials in gymnastics applicable to teaching in the secondary school. Methods of teaching on tumbling and apparatus work. 2 s.h.

Prerequisite: 0835-0112

0835-0301 Adapted Physical Education

A lecture and participation course covering the philosophy and goals of adapted physical education for children with handicaps. A minimum of 3 hours per week of clinical experience in schools, clinics and/or hospitals is required. 3 s.h.

Prerequisite: Kinesiology

0835-0302 Non-Sport Activities for Primary Grades

Materials and methods of teaching non-sport activities for the primary grades: story plays, mimetics, game activities, tumbling, jump rope and individual stunts. 1 s.h.

0835-0303 Psychology of Sport

Psychology related to physical activity: on emotional, attitudinal and personality aspects. Motivation, cultural and sociological problems of athletes; spectator response and deportment. 2 s.h.

0835-0304 Non-Sport Activities Grades 4-8

A wide range of game, movement and rhythm activities that are not sport oriented; how they should be a major portion of a physical education curriculum for these grades. 1 s.h.

0835-0305 Measurement and Evaluation in Physical Education

Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. 2 s.h.

Prerequisite: Open to Juniors and Seniors only

0835-0306 Dance for the Elementary School

Theory, materials and methods for teaching dance in an elementary physical education program. 1 s.h.

0835-0307 Competitive Women's Gymnastics in the Schools

Coaching competitive gymnastics: Women's gymnastics, dance in gymnastics, training methods on the four Olympic events, techniques and skill analysis. 2 s.h.

Prerequisite: 0835-0112

0835-0308 Coaching of Track and Field

Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities. 2 s.h.

Prerequisite: 0835-0113 or 0835-0229

0835-0309 The Coaching of Tennis

The techniques and methods of coaching tennis; strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strokes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and inter-school competition. 2 s.h.

Prerequisite: 0835-0130

0835-0311 Coaching of Golf

Methods and techniques of coaching golf; medal and match play strategy. The organization of a complete golf program; drills, fundamental strokes, rules and etiquette. 2 s.h. Prerequisite: 0835-0122

0835-0312 Water Safety Instructor

This course follows the standards and procedures for certification by the American Red Cross. 1 s.h.

Prerequisite: A Current A.R.C. Senior Life Saving Card.

0835-0313 Lifesaving

Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men. 1 s.h.

Prerequisites: Must be able to: 1. perform standing front dive; 2. swim 440 yds. continuously using various strokes; 3. dive from surface to minimum depth of six feet and swim 15 feet underwater; 4. tread water one minute.

0835-0314 Prevention and Care of Athletic Injuries

Introduction to aspects of sports medicine which are necessary to the safe conduct of sports. The physiological and medical bases of treatment, management procedure, and skills in the application of treatment. Medical and safety problems, protective equipment and facilities, training techniques, and nutrition and diet. For men and women; lecture as well as training room experience. 3 s.h.

0835-0315 Coaching Men's Gymnastics

For the student who desires to become a special teacher or coach of advanced gymnastics. The terminology of the sport, training methods, current trends in requirement for performance, organization and the FIG rules. Methods of teaching and the application of sound safety procedures. Advanced gymnastics examined critically in the light of physiological and mechanical factors. 2 s.h.

Prerequisite: 0835-0113

0835-0317 The Teaching of Physical Education

Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions relate to learning facilities and equipment. 4 s.

Prerequisite: Open only to Juniors and Seniors

0835-0318 Organization and Administration of Physical Education

Legislation, financing, plant facilities, care and purchase of supplies and equipment, office management and records, intramural programming and tournaments, and conduct of varsity sports. Taken after all junior-level work has been completed. 2 s.

0835-0319 Organization and Administration of Athletics

For those who expect to become teachers, supervisors and directors of physical education. Athletic eligibility, management, equipment, records, intramural programming and tournaments, awards, finances, budgets, safety, maintenance, planning of facilities, junior and senior high school athletics, and current athletic trends. 2 s.

0835-0320 Recreational Needs in Urban Society

A survey and evaluation with attention to leisure and recreation as a social force. Recreation history and philosophy considered in light of changing times; present and future recreational needs and problems of urban society. 3 s.

0835-0321 Physical Activity for Emotionally Handicapped

Identifying the levels of emotional handicaps experienced by children; understanding psychological and social needs. Activities suitable for meeting the needs of these children.

2 s.h.

0835-0322 Physical Activities for the Mentally Handicapped

Current practices, problems, legislation and financing of programs for the mentally retarded; developing a physical activity program to meet the needs of the educable and trainable mentally retarded.

2 s.h.

Recreation Professions Major**I. Requirements**

	semester hours
0849-0120 Leisure and Recreation	3
0849-0222 Recreation Leadership and Supervision	3
0849-0351 Community Recreation Resources	3
0849-0352 Organization and Administration of Community Sports and Athletics ..	3
0849-0361 Programming for Recreational Needs	3
0849-0364 Recreation for Special Populations	3
0849-0371 Recreation and Park Administration	3
0835-0230 Camping and Outdoor Recreation	2
0835-0419 Recreational Needs of Urban Society	3
0506-0201 Financial Accounting	3
0506-0231 The Management Process	3
0506-0316 Human Resource Management	3
2001-0255 Environmental Psychology	3
2208-0112 Sociology of Leisure	3

Field Experience:

Semester hours for field experience credit may be modified by circumstances as determined by the appropriate academic administrator

9

II. Recreation Electives 18

Recommended 18 semester hours of the following:

0506-0315 Organizational Behavior	3
0835-0413 Group Interaction in a Recreational Setting	3
0837-0101 Health for Personal Living	3
0842-0431 Individual and Group Dynamics	3
0849-0206 Aquatics in Recreation	2
0849-0309 Team Sports	2
0849-0310 Lifetime Sports	2
0849-0372 Recreation Planning in Park Areas and Facilities	3
1301-0427 The Inner City Family	3
2001-0202 Adolescent Psychology	3
2202-0404 Urban Anthropology	3
2202-0301 Field Studies in Urban Life	3
2207-0304 State and Local Government	3

II. Free Electives 14**COURSE DESCRIPTIONS****849-0222 Recreation Leadership and Supervision**

he processes and techniques of leadership and supervision. Common and distinguishing features of recreation leadership. Students will develop principles for leadership from their philosophies for living and recreation.

3 s.h.

849-0361 Programming for Recreational Needs

he development and supervision of programs in various settings: municipal departments, voluntary agencies, hospitals and the armed forces. Planning, conducting and valuating recreation programs with a study of the nature, scope and resources of major program areas.

3 s.h.

0849-0364 Recreation for Special Populations

Philosophical concepts and programs for the ill and handicapped, including the mentally retarded, emotionally ill, and the aged in both institutional and community settings.

3 s.h.

0849-0371 Recreation and Park Administration

The operation of different types of recreational facilities; organizational, managerial, promotional and maintenance problems of a facilities administrator.

3 s.h.

0849-0372 Recreation Planning in Park Areas and Facilities

A study of agencies operating community sports programs at all levels of competition. Benefits to both participants and the community at large.

3 s.h.

Panzer School Council

Dr. George B. Pearson, Chairman

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of Physical Education and Health was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Health at Montclair State College. The College became the custodian and depository of Panzer College records.

With the establishment of the School of Professional Arts and Sciences in 1970, the title Panzer School Council was adopted, reflecting the change in organizational emphasis. Council membership consists of the Chairman of Physical Education, the Chairman of Health Professions, and the Director of Intramural and Leisure Activities. The Panzer School Council represents the shared interests of the faculties of the Departments involved and coordinates their pertinent and related curricular and co-curricular activities. A major portion of the Council's efforts are actively and generously supported by the Panzer College Alumni Association. Such support takes the form of direct scholarship aid; providing funds for professional conferences, workshops and sports clinics; and sponsoring student attendance at professional meetings.

New Jersey School of Conservation

Professor: Kirk, Director

Assistant Professors: Kelly; Schierloh, Assistant Director

Instructors: Ford, Merritt

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Arts and Sciences. The 240-acre facility is located in Stokes State Forest and High Point State Park.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short and long term learning experiences. These range from two- or three-day programs for 12,000 elementary and secondary school children during 1974-75, to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers-The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's programs are looking toward creating or modifying courses to be offered for Montclair credit through the School. For example, the School of Conservation and the Department of Industrial Education and Technology have recently developed a course in historical restoration. The School of Conservation also conducts workshops for elementary and secondary school teachers interested in developing proficiencies in teaching environmental concerns, which also earn Montclair graduate credit. The faculty of the School has organized and developed one-day workshops for community action organizations.

The School conducts an extensive summer camp program which attracts counselors from all over the world who acquire professional competence for their own programs by helping New Jersey youngsters to develop a respect for the environment.

In June 1973 the Japanese Government declared the Osaka Youth Outdoor Activities Center and the School of Conservation to be sister centers. The Osaka Center is the largest environmental education facility in the world.

Individuals desiring additional information about the New Jersey School of Conservation or its programs should write: Dr. John J. Kirk, Director, Montclair State College, New Jersey School of Conservation, Branchville, N.J. 07826.

Department of Athletics

Director of Athletics: Dioguardi

Assistant Directors: Anderson and Olson

Men's Head Coaches: Anderson, Brown, DeCicco, DeRosa, Gelston, Horn, Sciacchetano, Wolfarth

Women's Varsity Coaches: Armstrong, Meyer, Olson, Paskert, Schnable, Schleede, Taigua

Intercollegiate athletics are under the auspices of the Department of Athletics and are coordinated by a board of student, faculty and alumni representatives called the Montclair Athletic Commission. The intercollegiate program provides students of all the Schools with common and unifying activities.

The women's varsity program includes basketball, fencing, field hockey, gymnastics, softball, swimming, tennis and track. The College is a member of the Association of Intercollegiate Athletics for Women and the Eastern Association of Intercollegiate athletics for Women.

The men's intercollegiate sports are baseball, basketball, cross-country, fencing, football, golf, lacrosse, soccer, tennis, track and wrestling. Rules of eligibility are determined by the College, the Eastern College Athletic Conference and the National Collegiate Athletic Association.

All participants in the intercollegiate program must pass a medical examination each year and enroll in the student accident insurance program. The department provides additional insurance beyond the limits of the student program.

Physical facilities include:

Anzer Gymnasium—Regulation size swimming pool; three basketball courts; gymnastic facility; wrestling room and sauna bath; weight-training facilities; indoor batting cage for baseball and golf; and separate training rooms for men and women.

Prague Field—Seating for six thousand; natural turf; permanent lighting system; cinder track (all home football games, some lacrosse, soccer and field hockey are scheduled for this facility).

Pittser Field—Baseball diamond; practice area for football; and intramurals. Eight tennis courts and a lighted platform tennis court are adjacent to field.

Activity Field—Practice area for various activities.

Athletic fields are being planned for the newly acquired land on the northern section of the campus. Plans have been submitted for the installation of artificial turf and lights for Pittser Field.

School of Social and Behavioral Sciences

Philip S. Cohen, Dean

The School of Social and Behavioral Sciences was formally approved by the Board of Trustees in the spring of 1969. In February of 1970, with student-faculty planning completed, the School was fully organized into the departments of Anthropology, Communication Sciences and Disorders, Economics, Geography, History, Political Science, Psychology and Sociology.

Each department offers at least one major program leading to the Bachelor of Arts degree. By following a professional sequence, students may obtain teacher certification in social studies, speech correction and other education fields.

In addition to the well-established courses of study, interdisciplinary programs are encouraged within the School and in conjunction with other Schools. Transcultural Studies, for example, bring the disciplines of cultural anthropology, geography and history into a new correspondence. A major interdisciplinary focus in the Sociology and Psychology programs places increasing stress on the humanistic themes in the Social and Behavioral Sciences.

On-going examination of curriculum is intended to strengthen current programs and reflect new directions that will prepare students for the careers of the future. By careful planning of free electives and General Education requirements, students can complete two majors or, if they wish, combine one major with a minor in another area. Minor programs are offered by most of the departments within the School.

The cultural and social laboratory of the New York-Newark-Paterson region and our affiliations with schools, hospitals, clinics, municipalities, planning boards and social service agencies in urban and suburban environments provide numerous opportunities for invaluable externship training in the social and behavioral sciences. The School also provides on-campus clinical experiences through the Communication Disorders Center and the Psychoeducational Center.

In its brief history, the School of Social and Behavioral Sciences has established a unique identity based on diversity within a unified, organic whole. Out of its broad spectrum of departments and programs has been effected a structure which embraces a variety of methods, content and organization, each bearing a special relationship to the other.

General Education Requirements for the School of Social and Behavioral Sciences

Common Core: Identical to those of the College as a whole regardless of the degree program pursued. See Page 26

School Planned Core: Identical for all students of the School, regardless of the degree program pursued: From at least 4 of the areas below, select no less than 3 nor more than 9 semester hours (no more than 12 semester hours in the School of Social and Behavioral Sciences):

Language and Linguistics	Behavioral Sciences
Literature	History
Mathematics	Philosophy-Religion
Life Sciences	Art*
Social Sciences	Music*

*Applied or performance courses do not apply

SOCIAL STUDIES TEACHER EDUCATION

Students who desire teacher certification in the Social Studies must follow the Professional Sequence including the special methods course:

0899-0401 The Teaching of the Social Studies

Prepares students to meet the problems encountered by the beginning teacher in social studies education on the elementary and secondary school level.

The Social Studies teacher is expected to have a broad understanding of the

vironmental and cultural factors which shape the individual and his society. To meet the approved program for certification in Social Studies, course work is required in each of the following fields: Anthropology, Economics, Geography, History, Political Science and Sociology. A more detailed description of requirements is available in the office of the School Counselor.

Department of Anthropology

Professor: Quintana, Chairman

Assistant Professors: Boylan, Brook, Flint, Franke, Klein

Instructors: Cinquemani, Morse, Tarhan

Participating Faculty from Other Departments-Professors: Cohen, Floyd, More

The undergraduate major in anthropology addresses itself to the understanding of man as a whole. It is concerned with knowledge of man's development and behavior from the beginnings of life to the present, and with applying that knowledge to contemporary human problems. While anthropology intersects with other behavioral and natural sciences, it is unique in its holistic emphasis, participatory methodologies and historical/comparative focus. All peoples and all aspects of human life constitute the subject matter of its four basic fields: cultural anthropology, archaeology, physical anthropology and anthropological linguistics.

The major prepares students for advanced work in the discipline, leading to college teaching, museum curatorial work and/or research. Increasingly, the undergraduate major is a prerequisite for admission to graduate programs in anthropology, many of which offer fellowships, scholarships, and teaching assistantships for qualified students.

By providing diversity in departmental offerings, the major also helps prepare students for employment in non-teaching fields—e.g., urban renewal, community service agencies, public health programs, international relations, etc. In addition, majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools where new curriculum trends reflect a rapidly-growing demand for anthropological inputs. For the student undecided about career goals, the major provides an excellent liberal arts background about what man has been, is and can become.

Anthropology Major

Requirements

	semester hours
2202-0100 Cultural Anthropology	3
2202-0201 Physical Anthropology	3
2202-0306 Prehistoric Archaeology	3
2202-0463 Anthropological Linguistics	3

Electives

9 semester hours from:	
2202-0301 Peoples of Africa	3
2202-0302 Ethnology of Oceania	3
2202-0303 Peoples of South America & the Caribbean	3
2202-0304 Peoples of the Soviet Union	3
2202-0305 The American Indian: Perspectives on Change	3
2202-0307 Peoples of Southeast Asia	3
2202-0309 Peoples of Middle America	3
2202-0330 Culture in Transition in India	3
2202-0406 Peasant Culture	3
2202-0432 Development of Japanese Character & Culture	3
2202-0461 Cultural History of Preliterate Societies	3
12 semester hours from:	
2202-0308 Primate Ethology	2
2202-0402 Dynamics of Culture	3
2202-0403 Dynamics of Human Evolution	3

2202-0404	Urban Anthropology	3
2202-0405	Psychological Anthropology	3
2202-0407	Independent Research in Anthropological Theory and Method	3
2202-0408	Archaeology of Ancient Middle America	2
2202-0409	Anthropology of Religion	3
2202-0411	Field Methods in Archaeology	3
2202-0413	Medical Anthropology	3
2202-0414	Selected Issues in Anthropology	3
2202-0430	Field Methods in Linguistics	3
2202-0461	Cultural History of Preliterate Societies	3
2202-0462	People and Cities	3
		—
	REQUIRED TOTAL	33

Work in supportive areas—e.g., transcultural studies (including non-western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics or foreign languages—is strongly recommended and should be discussed with major advisors.

COURSE DESCRIPTIONS

2202-0200 Cultural Anthropology

Analysis of transcultural data; basic methodologies, concepts and goals of anthropology; the nature of culture, its role in human experience and its universality. 3 s.h.

2202-0201 Physical Anthropology

The biological basis of human evolution including surveys of human paleontology, primatology and the races of man. The relationship of culture to man's development: lectures, field trips and the use of fossil and audio-visual materials. Field fee \$5.00. 3 s.h.

2202-0301 Peoples of Africa

Diversity in the lifestyles of representative African cultures; prehistory, culture change and contemporary problems in Sub-Saharan Africa. (May be offered in mini-course format.) 3 s.h.

2202-0302 Ethnology of Oceania

Societies of the Pacific region and their relevance to selected theoretical issues in anthropology; magic and ritual, origins of social stratification, effects of environment on culture, and meaning of kinship systems. 3 s.h.

2202-0303 Peoples of South America and the Caribbean

Selected South American and Circum-Caribbean cultures; culture change from prehistoric period to present; relationship to contemporary problems. 3 s.h.

2202-0304 Peoples of the Soviet Union

The cultural, political, economic and historical significance of several ethnic and religious identities within the borders of the Soviet Union; Eastern Slavs, Uzbeks, Tartars, Georgians, Estonians and Moldavians. 3 s.h.

2202-0305 The American Indian: Perspectives on Change

Amerindian cultures north of Mexico; representative tribes, their world views, and the adaptations to the environment, each other and European contact. 3 s.h.

Prerequisite: 2202-0100.

2202-0306 Prehistoric Archaeology

The development, method and theory of anthropological archaeology. Analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. Field fee \$5.00. (May be offered in mini-course format.) 3 s.h.

Prerequisite: 2202-0100.

2202-0307 Peoples of Southeast Asia

Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines; recent socio-cultural processes.

3 s.h.

2202-0308 Primate Ethology

The relationship of non-human primate behavior to the origins of human behavior. Module 1: the lemurs and monkeys and their ecologies; Module 2: the great apes and their societies. (May be offered in mini-course format.)

2 s.h.

2202-0309 Peoples of Middle America

Mexican and Central American groups which show varying degrees of acculturation; aspects of early post-European contact; current cultural development.

3 s.h.

2202-0330 Culture in Transition in India: An Anthropo-Geographical Approach

India in its geographical and socio-anthropological setting. Focuses on the nature and processes bringing about transition in traditional values and social institutions.

3 s.h.

2202-0402 Dynamics of Culture

Cultural development, growth, transmission, perpetuation and change. The concept of "future shock" and its implications for folk and urban culture.

3 s.h.

Prerequisite: 2202-0100

2202-0403 Dynamics of Human Evolution

Man's evolution to a bipedal animal from his early vertebrate beginnings. The diversity of forms that have led to contemporary man, bio-cultural forces that have influenced change, human ecology and population genetics.

3 s.h.

Prerequisite: 2202-0201 or permission of the instructor.

2202-0404 Urban Anthropology

The dynamics of acculturation; relationships between urban sub-cultures and the broader urban community; values, personality, behaviors and other aspects of the adjustment of people whose lifestyle sets them apart from the dominant society.

3 s.h.

2202-0405 Psychological Anthropology (Also listed as 2001-0405)

Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Student work with bicultural informants.

3 s.h.

Prerequisites: 2202-0100, 2001-0100 or 2001-0101.

2202-0406 Peasant Culture

Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Guest lectures by cultural historians.

3 s.h.

Prerequisite: 2202-0100 or 2205-0102.

2202-0407 Independent Research in Anthropological Theory and Method

Directed research towards the preparation of written papers, stressing field work, library research and problem orientation. A tutorial without formal class meetings.

3 s.h.

Prerequisite: Departmental approval.

2202-0408 Archaeology of Ancient Middle America

Ancient cultures of Middle America. Module 1: northern Mesoamerica, the Gulf Coast, Daxaca and Central Mexican Aztecs; Module 2: the ancient Maya of Mexico and Central America. (May be offered in mini-course format.)

2 s.h.

2202-0409 Anthropology of Religion

Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities: origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture.

3 s.h.

2202-0411 Field Methods in Archaeology

Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated. 3 s.h.
Prerequisite: 2202-0306

2202-0413 Medical Anthropology

Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in the evolution of man. 3 s.h.
Prerequisite: 2202-0201 or permission of instructor.

2202-0414 Selected Issues in Anthropology

Functional/structural analysis of kinship and mythology; cultural ecology and its critics; nature/culture in the explanation of human behavior; research ethics; etc. Emphasis on reading in the professional literature. 3 s.h.
Prerequisite: 9 semester hours in anthropology.

2202-0430 Field Methods in Linguistics

Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in Linguistics. 3 s.h.
Prerequisite: Anthropological or General Linguistics.

2202-0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. 3 s.h.

2202-0461 Cultural History of Preliterate Societies

Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and nondocumentary evidence in reconstructing the culture history of pre- or semi-literate societies. 3 s.h.
Prerequisite: 2202-0100 or 2205-0102.

2202-0462 People and Cities (Also listed as 2205-0462 and 2206-0462)

Interdisciplinary and cross-cultural investigation of urbanism and urbanization; the formation, structure and functioning of cities throughout the world. 3 s.h.
Prerequisite: 2202-0404, 2205-0220, 2206-0410 or 2208-0306, or permission of the instructor.

2202-0463 Anthropological Linguistics

Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and Africar languages. The relationship of linguistic structure and theory to cultural systems; individual student field experience, readings and lectures. 3 s.h.
Prerequisite: 2202-0100 or 1505-0210.

Department of Communication Sciences and Disorders

Professors: Leight, Scholl, Shulman, Woolf

Associate Professors: Heiss, Schon, Caracciolo

Assistant Professors: Attanasio; Barden, Chairperson; Bell-Berti; Lahey

Instructor: Lindenman

The undergraduate curriculum in Communication Sciences and Disorders provide a foundation for professional specialization at the Master's level. Students progress through a sequence which emphasizes initially the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

For most employment in the field of communication disorders, the Master's degree is a requirement. On completing the undergraduate curriculum, students pursue graduate study and concentrate in speech pathology, audiology, learning disabilities or teaching the deaf and hearing impaired. The undergraduate and graduate program in Communication Sciences and Disorders prepares the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association. In addition, it leads to certification by the New Jersey State Department of Education in grades Kindergarten through twelve.

Communication Sciences and Disorders Major

Required Courses and Electives		semester hours
1220-0100	Fields of Communication Sciences and Disorders	3
1220-0103	Fundamentals of Voice and Speech Production	3
1220-0104	Phonetic Study of Speech Sounds	3
1220-0200	Techniques in Clinical Observation and Reporting	2
1220-0202	Acquisition of Speech and Language	3
1220-0207	Hearing Science	3
1220-0208	Anatomy and Physiology of the Speech System	3
1220-0209	Voice and Articulation Disorders	3
1220-0210	Development of Communication Skills in Children: Methods and Materials	3
1220-0410	Neurophysiological Disorders of Communication	3
1220-0411	Psychodynamics of Communication Disorders	3
1220-0412	Diagnosis of Communication Disorders	3
1220-0461	Introductory Practicum in Communication Disorders	2
1220-0462	Intermediate Practicum in Communication Disorders	2
1220-0463	Advanced Practicum in Communication Disorders	2
1220-0464	Psychology of Oral Communication	3
1220-0468	Clinical Procedures in Audiology	3
1220-0469	Problems of the Hearing Impaired	2
1220-0472	Speech Science and Instrumentation	3
1220-0473	Organization and Administration of Speech and Hearing Programs	3
1220-0483	Language Disorders of Children	3
1220-0484	Seminar in Problems and Issues in Communication Sciences and Disorders	2

Majors are urged to take 2001-0320, Psychology of the Handicapped to complete state certification requirements.

Additional electives, suitable for the major in Communication Sciences and Disorders, are offered through the departments of Anthropology, Biology, English, Home Economics, Linguistics, Physics, Psychology and Sociology, and in the School of Education. See catalog listings.

COURSE DESCRIPTIONS

120-0100 Fields of Communication Sciences and Disorders

A orientation: practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties. Field trips to special centers. 3 s.h.

120-0103 Fundamentals of Voice and Speech Production

Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills. 3 s.h.

120-0104 Phonetic Study of Speech Sounds

The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet. 3 s.h.

1220-0200 Techniques in Clinical Observation and Reporting

Observing, describing and reporting the behavior of clients with speech, hearing and language problems; the intake interview and parent conferences. 2 s.h.

Prerequisite: 1220-0100.

1220-0202 Acquisition of Speech and Language

The development of a first language in the child. Acquisition of syntactic, semantic and phonological systems studied in a cognitive-linguistic framework. 3 s.h.

1220-0207 Hearing Science

Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing. 3 s.h.

1220-0208 Anatomy and Physiology of the Speech System

The anatomical and physiological bases of respiration, phonation and articulation-resonation. 3 s.h.

1220-0209 Voice and Articulation Disorders

Voice and articulation problems of pre-school and school-age children. Strategies techniques and materials for evaluation and remediation. 3 s.h.

Prerequisites: 1220-0103, 0104, 0208.

1220-0210 Development of Communication Skills in Children: Methods and Materials

The development of oral communication skills in children within basic school curriculum Speech improvement techniques through storytelling, creative dramatics, choral speaking and oral interpretation; listening activities and content analysis. 3 s.h.

Prerequisites: 1220-0104, 0202, 0209.

1220-0410 Neurophysiological Disorders of Communication

Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation. 3 s.h.

Prerequisites: 1220-0104, 0202, 0208, 0209.

1220-0411 Psychodynamics of Communication Disorders

Psychological aspects of communication disorders; the nature, diagnosis and treatment of stuttering in children and adults; the nature of counseling and psychotherapy. 3 s.h.

Prerequisites: 1220-0104, 0202, 0209, and at least 6 semester hours in psychology.

1220-0412 Diagnosis of Communication Disorders

Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting case histories. 3 s.h.

Prerequisites: 1220-0209, 0410, 0411, 0461.

1220-0461 and 0462 Introductory and Intermediate Practicum in Communication Disorders

Supervised clinical practice with children and adults presenting a variety of communication disorders. 3 s.h.

Prerequisites: 1220-0209, 0410, 0411.

1220-0463 Advanced Practicum in Communication Disorders

A continuation of 1220-0461 and 0462 providing supervised experience in diagnosis and therapy with more complex and specialized communication disorders. May be taken at the Department's Communication Disorders Center and at other cooperating hospitals, rehabilitation and educational facilities. 3 s.h.

Prerequisites: 1220-0461, 0462.

1220-0464 Psychology of Oral Communication

Problems of interpersonal communication leading to confusion of meaning and meaning understanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process. 3 s.h.

Prerequisite: Junior standing.

1220-0468 Clinical Procedures in Audiology

The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.

3 s.h.

Prerequisite: 1220-0207.

1220-0469 Problems of the Hearing Impaired

Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement; psychological aspects of hearing loss; interviewing and counseling the parents of the hearing impaired child.

2 s.h.

Prerequisite: 1220-0468.

1220-0472 Speech Science and Instrumentation

Basic acoustics; respiration and voice production; acoustics theory of vowel production; consonant acoustics and speech perception.

3 s.h.

Prerequisites: 1220-0104, 0208.

1220-0473 Organization and Administration of Speech and Hearing Programs

Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals.

3 s.h.

Prerequisites: 1220-0209, 0210, 0461.

1220-0483 Language Disorders of Children

Strategies for the assessment of language disorders and for the development of intervention programs.

3 s.h.

Prerequisite: 1220-0202.

1220-0484 Seminar in Problems and Issues in Communication Sciences and Disorders

Independent study and research in selected areas of communication sciences and disorders. Enrollment limited.

2 s.h.

Prerequisite: Departmental approval.

Department of Economics

Professor: Kronish

Associate Professor: Desai, Chairman; Bach; Reilly-Petrone

Assistant Professors: Cherry, Davis, Flint, Scher, Weber

Instructor: Sisik-Leveen

A major in economics permits students to specialize in a body of knowledge that is increasingly complex, systematically formulated and operationally significant. The latter refers to the increasing utilization of the skill and competence of the economist not only in the academic world but also in the world of federal, state and local government and in industry and labor organizations.

Economics Major

Requirements*	semester hours
2204-0101 Principles of Economics (Macroeconomics)	3
2204-0102 Principles of Economics (Microeconomics)	3
2204-0203 Economic Statistics	3
2204-0305 Intermediate Macroeconomic Analysis	3
2204-0307 Intermediate Microeconomic Analysis	3
	—
	15

A student majoring in Economics must choose 18 semester hours from the list of Electives in his specialization. In addition, Math 111-112 or Calculus A is recommended for majors. Pre-requisites can be waived with permission of instructor or department head.

II. Electives**

		semester hours
2204-0204	Labor Economics	3
2204-0205	Collective Bargaining: Theory and Practice	3
2204-0213	Economic History of the U.S.	3
2204-0222	Economic History of Europe	3
2204-0300	World Resources and Industries	3
2204-0301	Money and Banking	3
2204-0302	Financial Institutions and Policy	3
2204-0303	Economic Growth and Development	3
2204-0304	Public Policies Toward Business	3
2204-0306	Managerial Economics	3
2204-0308	Public Finance	3
2204-0310	Urban and Regional Economics	3
2204-0402	International Economics	3
2204-0403	Comparative Economic Systems	3
2204-0407	Economics of Industrial Organization	3
2204-0414	Development of Economic Thought	3
2204-0415	The Economics of Social Problems	3
2204-0417	Mathematical Economics	3
2204-0418	Economics of Human Resources	3
2204-0461	Seminar in International Economic Geography	3

NO MORE THAN SIX HOURS FROM THE FOLLOWING COURSES:

2204-0250	Selected Topics in Economics	3
2204-0397, 0398	Independent Study	3
2204-0438	Seminar in Advanced Economics	3
2204-0497, 0498	Economics Independent Study	3

COURSE DESCRIPTIONS**2204-0100 Introduction to Economics**

Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations.

3 s.h.

2204-0101 Principles of Economics: Macro

A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment level of national income and long term growth.

3 s.h.

2204-0102 Principles of Economics: Micro

Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.

3 s.h.

2204-0203 Economic Statistics

Basic elements of Economics Statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.

3 s.

2204-0204 Labor Economics

The determinants of wages in the organized and unorganized markets; an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas; an examination of current issues in labor relations.

3 s.

Prerequisite: 2204-0101 and 0102.

**Not every elective is given every year.

2204-0205 Collective Bargaining Theory and Practice

The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. 3 s.h.

Prerequisites: 2204-0101 and 0102.

2204-0213 Economic History of the U.S. (also listed as 2205-0213)

Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes. 3 s.h.

2204-0222 Economic History of Europe

(Also Listed as 2205-0222)

The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries. 3 s.h.

2204-0250 Selected Topics in Economics

An in-depth study of a particular theoretical or applied area of Economics.

3 s.h.

Prerequisites: Vary with topics.

2204-0300 World Resources and Industries

(Also listed as 2206-0300)

Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. 3 s.h.

2204-0301 Money and Banking

An analysis of the economic role of money and credit in our economy with primary emphasis on Federal Reserve and Treasury operations. 3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0302 Financial Institutions

The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions. 3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0303 Economic Growth and Development

Problems of hastening the growth of countries with low incomes per person; the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development. 3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0304 Public Policies Toward Business

The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting. 3 s.h.

Prerequisite: 2204-0102 or permission of instructor.

2204-0305 Intermediate Macroeconomic Analysis

The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy. 3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0306 Managerial Economics

The application of economic theory in the decision-making processes of the firm; utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions. 3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0307 Intermediate Microeconomic Analysis

The basic determinants of market demand. Input-Output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.

3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0308 Public Finance

The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.

3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0310 Urban and Regional Economics

The underlying economic forces operating in the urban economy; development of the urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area and the public sector of the urban economy.

3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0397, 0398 Economics Independent Study

Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the Economics Department guides the student in his research and reading.

3 s.h. ea.

2204-0402 International Economics

The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.

3 s.h.

Prerequisite: 2204-0101 and 0102

2204-0403 Comparative Economic Systems

The economics systems of planned and mixed economies with special emphasis on the Soviet Union, China, The United Kingdom, the Scandinavian countries and the United States.

3 s.h.

Prerequisites: 2204-0101 and 0102 or 2204-0100.

2204-0407 Economics of Industrial Organization

The causes and effects of structure, size and concentration on competition and market prices.

3 s.h.

Prerequisite: 2204-0101 and 0102.

2204-0414 Development of Economic Thought

Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.

3 s.h.

2204-0415 The Economics of Social Problems

The extent, causes and consequences of poverty, inequality and insecurity; an appraisal of reforms: social insurance, medical care, public housing and rural development.

3 s.h.

2204-0417 Mathematical Economics

Formulation of economic theory in mathematical language. Application of Mathematical methods to economic theory and to the derivation of theoretical conclusions.

3 s.h.

Prerequisite: 2204-0101, 0102, 0203, 0305 and 0307.

2204-0418 Economics of Human Resources

Analysis of the role of human resources in the economic process.

3 s.

Prerequisite: 2204-0101 and 0102 or 2204-0100.

2204-0438 Seminar in Advanced Economics

A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation. 3 s.h.
 Prerequisites: 18 hours in Economics or permission of instructor.

2204-0461 Seminar in International Economic Geography

(Also listed as 2206-0461)

An interdisciplinary seminar focusing the techniques of Economics and Geography on a common theme, hopefully resulting in a synergistic conclusion. 3 s.h.
 Prerequisite: Junior standing and one course in Geography or Economics: 2204-0101, 0102.

2204-0497, 0498 Economics Independent Study

Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairman must be secured. 3 s.h.

Department of History

Professors: Barker, Chairman; Beckwith; More; Royer

Associate Professors: Keenen, Kops, Moore, Zimmer

Assistant Professors: Bell, Bretherton, Macaluso, Mwangi Wa-Githumo, Olenik, Pastor, Pate, Prosser, Schwartz, Wyatt

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools.

History Major

Requirements	semester hours
2205-0100 The Study of American History	3
2205-0101 The Study of European History	3
or	
2205-0102 The Study of Non-Western History	3
1. Minimum Concentration in American, Latin-American, European or Asian History	12
I. History Electives	15
	—
REQUIRED TOTAL	33

A minimum concentration of twelve semester hours is required in American, Latin-American, European or Asian history. A special requirement is six semester hours in the study of history, 2205-0100 and either 0101 or 0102. These courses are designed to investigate the basic nature and methods of history and to help introduce students to opportunities and problems of research in the main fields of history. Work in supportive areas—e.g., anthropology, art history, economics, English or foreign literature, geography, philosophy and religion, political science, psychology, sociology, transcultural or urban studies—should be discussed with departmental faculty advisors.

COURSE DESCRIPTIONS

05-0100 The Study of American History

The nature of historical research and reasoning; student experience in working with actual historical materials and procedures. 3 s.h.

2205-0101 The Study of European History

European history as a field of study and research; basic historical concepts and generalizations related to the data of European history.

3 s.h.

2205-0102 The Study of Non-Western History

Problems of the researcher in Asian history; sources of cultural history, including works of philosophy, literature, history and anthropology.

3 s.h.

2205-0103 Development of Early Western Civilization

Origins and development of Western civilization to about 1350: Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions.

3 s.h.

2205-0104 Introduction to Historical Thinking

History examined as a mode of inquiry. Emphasis on student experience working with historical materials, procedures and problems.

3 s.h.

2205-0108 Development of African Civilization

Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environment systems of the period.

3 s.h.

2205-0109 Development of Islamic Civilization

Muslim society, culture and history from the birth of Muhammed through the development of the classical Osmanli state of the 16th century.

3 s.h.

2205-0110 Development of American Civilization

The mainstreams of development in American civilization. Political, intellectual, social economic and cultural forces and achievements which have made the United States distinctive.

3 s.h.

2205-0114 Development of Latin American Civilization

The components of Latin American civilization. Geographical background and development of Mayan, Incan and Aztec civilizations; Spanish and Portuguese backgrounds the wars of independence.

3 s.h.

2205-0115 History of Puerto Rico

The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States.

3 s.l.

2205-0131 Development of Indian Civilization

The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions.

3 s.

2205-0132 Development of Chinese Civilization

The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and metaphysical-philosophic works, corresponding values and institutions.

3 s.

2205-0133 Development of Modern East Asian Civilization

Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works.

3 s.

2205-0201 Early Modern Europe, 1350-1815

History of Europe from the late Middle Ages to the Congress of Vienna: Renaissance and Reformation, rise of new monarchies, Scientific Revolution and Enlightenment, French Revolution and Napoleon.

3 s.

2205-0202 Nineteenth Century Europe, 1815-1914

History of Europe from the Congress of Vienna to 1914: the rise of nationalism, liberalism, socialism and democracy; the Industrial Revolution; unification of Italy and Germany; imperialism and factors leading to World War I.

3 s.

2205-0203 Contemporary Europe, 1914 to the Present

History of Europe since World War I: Paris Peace Conference, 1919; Russian Revolution and development of communism; rise of Fascism; origins of World War II; the European states after 1945.

3 s.h.

2205-0210 Selected Topics in American History to 1876

Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction.

3 s.h.

2205-0211 Selected Topics in American History Since 1876

Issues and problems in the development of the American nation from the Civil War to the present.

3 s.h.

2205-0212 Social History of the United States

Social and cultural aspects of American history: population movements, rural and urban problems, status of women, utopian ventures, mass media, recreation, human rights.

3 s.h.

2205-0213 Economic History of the United States (Also listed as 2204-0213)

Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present, factors of economic growth.

Prerequisite: 2204-0101, 0102 or 0200.

3 s.h.

2205-0214 Diplomatic History of the United States

Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.

3 s.h.

2205-0215 Women in American History

The changing role and status of women in American society from colonial times to the present.

3 s.h.

2205-0220 Introduction to American Urban History

Main developments in the rise of urban America. Distinctive forces in the urbanization of our society; social, cultural, economic and political adjustments which urbanization stimulated and necessitated.

3 s.h.

2205-0222 Economic History of Europe (Also listed at 2204-0222)

European economic development from the Middle Ages to the present. Emphasis on the first Industrial Revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia.

3 s.h.

2205-0281 Greek Civilization (Also listed as 1504-0281)

2205-0282 Roman Civilization (Also listed as 1504-0282)

2205-0311 The Early History of New Jersey, 1702-1789

From royal colony to the establishment of the federal government under the Constitution; state and local events during the American Revolution.

3 s.h.

2205-0312 Historical Geography of the United States (Also listed as 2206-0312)

2205-0313 Biography in American History

The significant biographical materials available in the study of American history; the problems and uses of biography.

3 s.h.

2205-0317 History of Black Americans

Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to mid-20th century.

3 s.h.

Prerequisite: Background of six semester hours in American history recommended.

2205-0319 American Urban History to 1880

The urban dimension in American history and development of city life to 1880. Shapers of the 19th century city; instability and disorders due to transit and demographic revolutions.

3 s.h.

Prerequisite: 2205-0210 or equivalent background in American history.

2205-0320 American Urban History Since 1880

Transformation of the 19th century industrial city into the 20th century metropolis; the emergence of the New York metropolitan region.

3 s.h.

Prerequisite: 2205-0211 or equivalent background in American history.

2205-0321 History of the American Worker Since 1877

History of the American worker rather than his trade union; the worker's legal status, political behavior, social and cultural activities, treatment by employer and state.

3 s.h.

2205-0322 Medieval European Civilization, 450-1350

Origins, development and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.

3 s.h.

2205-0323 History of Russia to 1917

Factors shaping the Russian people: Byzantium and Greek Orthodox faith, Tartar state organization, the Mir, Westernization from Peter to Lenin, intellectual and radical movements.

3 s.h.

2205-0324 Russia Since 1917

Political, social, economic and intellectual developments in the Soviet Union; the relationship of ideology and national goals.

3 s.h.

2205-0326 Nineteenth Century German Culture and Society

The impact of modernization on 19th century German culture and society; resulting conservative political traditions and irrational cultural trends.

3 s.h.

Prerequisite: 2205-0202 or equivalent background in European history.

2205-0327 History of France Since 1789

Political, social, economic and intellectual developments in France since the Revolution

3 s.h.

2205-0329 History of England to 1714

Emphasis on political and constitutional history, the formation of basic institutions of law and government; related economic, social and cultural factors.

3 s.h.

2205-0330 Chinese Social History Through Literature

Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.

3 s.h.

2205-0331 History of England, 1714-1914

Political, social and economic history from the Hanoverian succession to the 20th century: Industrial Revolution, changing balance of the Constitution, British imperialism, the Irish question.

3 s.

2205-0332 Revolutions in Latin American History

Causes, course and consequences of three major revolutions: Mexico, Bolivia, Cuba. Impact on present-day domestic developments and international relations.

3 s.

2205-0333 Nationalism and Modernization in Brazil

The way nationalism and the quest for modernization reflected and influenced aspirations of the Brazilian people from colonial times to the present.

3 s.

2205-0335 The Communist Revolution in China

Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.

3 s.

2205-0336 Emergence of African Nationalism

Factors contributing to the development of African nationalism, 1900-1960.

3 s.h.

2205-0339 Seminar in Latin American History**2205-0339 Seminar in Latin American History****2205-0340 Seminar in American History****2205-0341 Seminar in European History****2205-0342 Seminar in Asian History**

Junior-Senior year seminars for small group discussion of selected topics and problems

Prerequisite: Nine semester hours in the area of the seminar or permission of the instructor.

3 s.h. ea.

2205-0408 Independent Study in European History**2205-0409 Independent Study in Non-Western History****2205-0410 Independent Study in American History**

3 s.h. ea.

2205-0411 Intellectual History of the United States

Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.

Prerequisite: Nine semester hours in American history or permission of the instructor.

3 s.h.

2205-0412 The Literature of American History

The major sources for studying and writing American history; changing interpretations of major events and themes; works of major historians.

3 s.h.

2205-0413 The Philosophy of History

Development of historical thought and the writing of history in the western world from Herodotus to the present.

3 s.h.

2205-0416 Church and State in Latin America

The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.

3 s.h.

2205-0419 Age of the Renaissance, 1350-1517

Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517.

3 s.h.

2205-0420 The Reformation Era, 1500-1650

Religious movements of the 16th and 17th centuries; their medieval antecedents; the accompanying political, intellectual and socioeconomic forces.

3 s.h.

2205-0422 Studies in Enlightenment History

Major intellectual developments in 18th century Europe: rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures.

3 s.h.

Prerequisite: 2205-0201 or equivalent background in European history.

2205-0424 Diplomatic History of Europe

European diplomacy since the Congress of Vienna, 1814-15; the development of diplomatic practice and relations between states from 1870 to the present.

3 s.h.

2205-0425 Ideas in European History: Burke to Nietzsche

Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.

3 s.h.

Prerequisite: 2205-0202 or equivalent background in European history.

2205-0426 The Nazi Third Reich

The impact of World War I on German culture and society; development of fascistic trends in German political thought.

3 s.h.

Prerequisite: 2205-0202 or equivalent background in European history.

2205-0431 Evolution of the Hindu World View

Evolution of philosophic ideas and social values and their relation to geographic environment and historical experience of the Indian people in the Buddhist age. Principal works of Hinduism and Indian Buddhism.

3 s.h.

Prerequisite: 2205-0131 or permission of the instructor.

2205-0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values.

3 s.h.

2205-0433 American Colonial History, 1607-1763

Developments within the English colonies, interactions between England and the colonists; growth of a distinctive American society.

3 semester hours

2205-0434 American Revolution and Early Republic, 1763-1828

Analysis of events leading to the War for Independence; political, economic and foreign problems of the new nation; the growth of nationalism.

3 s.h.

2205-0435 Crisis of the Union, 1820-1876

Significant events and developments of the period: Jacksonian democracy, westward expansion and sectionalism, the Civil War and Reconstruction.

3 s.h.

2205-0436 America in Transition, 1865-1917

The forces which contributed to the development of modern, industrialized America: American society and its reaction to changes of the period.

3 s.h.

2205-0437 Domestic Developments in the United States, 1914 to the Present

The continuing reactions to the problems of an industrialized America; the New Deal and recent Supreme Court decisions.

3 s.h.

2205-0440 Honors Research in American History**2205-0441 Honors Research in European History****2205-0442 Honors Research in Non-Western History**

Honors research for Senior history majors. Independent study in consultation with faculty advisor leading to the satisfactory completion of a senior research paper if departmental approval.

3 s.h. e

Prerequisite: Nine semester hours in the area of specialization and department approval.

2205-0461 Cultural History of Pre-literate Societies (Also listed as 2202-0461)

Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence reconstructing the culture history of pre-literate or semi-literate societies.

3 s

Prerequisite: 2202-0100 or 2205-0102.

2205-0462 People and Cities (Also listed as 2202-0462 and 2206-0462)

Interdisciplinary and cross-cultural investigation of processes of urbanism and urbanization; the formation, structure and functioning of cities throughout the world.

3 s

Prerequisite: 2202-0404, 2205-0220, 2206-0410 or 2208-0306, or permission of the instructor.

Transcultural Studies in World Cultures

Lois A. More, Program Coordinator

Transcultural Studies, an approach to World Cultures, is an interdisciplinary major. It offers opportunities to analyze generalizations regarding human behavior and examine universal aspects of social institutions that transcend boundaries of cultural areas. The program will prepare students to teach world cultures in junior and senior high schools and community colleges. As a Liberal Arts major, it is preparatory to graduate specialization in cultural anthropology, geography or history, as well as careers in museum curatorial service and domestic or overseas employment for government and private agencies whose focus is the non-West.

Transcultural Major

I. Core Requirements		semester hours
2202-0200	Cultural Anthropology	3
2206-0200	Cultural Geography	3
2205-0102	Study of Non-Western History	3
II. Unit Requirements: 12 s.h.		
Students are required to elect two of the following 6 s.h. transcultural units:		
Peoples of Southeast Asia, Geography of East and Southeast Asia, Development of Chinese or Modern East Asian Civilization (select two)		
Chinese or Modern East Asian Civilization (select two)		
Geography of South Asia, Development of Indian Civilization		
Peoples of Africa, Geography of Africa, Development of African Civilization (select two)		
Peoples of the Soviet Union, Geography of the Soviet Union		
Peoples of South or Middle America, Geography of Latin America, Development of Latin American Civilization (select two)		
Geography of the Middle East, Development of Islamic Civilization		
III. Electives		semester hours
2202-0302	Ethnology of Oceania	3
2202-0402	Dynamics of Culture	3
2202-0405	Psychological Anthropology	3
2202-0406	Peasant Culture	3
2202-0409	Anthropology of Religion	3
2202-0463	Anthropological Linguistics	3
2202-0461	Cultural History of Preliterate Societies	3
2205-0330	Chinese Social History Through Literature	3
2205-0431	Evolution of the Hindu World View	3
2205-0432	Development of Japanese Character and Culture	3
2206-0421	Population Problems of the World	3
2206-0422	Population and Settlements of Africa	3
2206-0423	Culture and Resource Utilization	3
4910-0460	Independent Transcultural Study	3
REQUIRED TOTAL		<u>33</u>

TRANSCULTURAL COURSES

910-0460 Independent Transcultural Study

conducted as interdisciplinary tutorial with no formal course meetings. Directed reading and preparation of papers on transcultural topics not offered in the curriculum, as well as advanced independent study in areas where students have had course experience.

3 s.h.

Prerequisite: 21 semester hours in Transcultural Studies.

Department of Political Science

Professor: Houroule

Associate Professor: Johnson, Chairman; Utete

Assistant Professors: Balfe, Menake, Long

Instructors: Batkay, Berlin, Feldstein

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics in the contemporary world. Students concentrate

a) American government and politics, b) comparative government and politics, c) international relations or d) political thought and method. In addition to its traditional-

legal aspects, it is part of the behavioral sciences drawing extensively from the findings of other relevant disciplines.

PRE-LAW

As many political science majors at Montclair State College identify themselves as pre-law, the department maintains a full-time law school advisor to assist seniors in their preparation and selection of law schools. Several clusters of courses in the department are suggested for law school candidates, including criminal and civil law plus American constitutional and international law.

Minor in Public Administration

To provide more employment opportunities in both state and local government, the political science department has put together a new minor program in public administration. Open to all majors it includes:

Core Requirement

American Government II	3
Introduction to Public Administration	3

Electives

Politics of the Federal Bureaucracy	3
Public Personnel Administration	3
Governmental Budgeting	3
Urban Administration	3
Seminar & Internship	9

REQUIRED TOTAL 18+

Political Science Major

I. Requirements—18 credit hours

semester hour

2207-0102 American Government I .....	.....
2207-0103 American Government II .....	.....
2207-0201 Comparative Government and Politics .....	.....
2207-0202 International Relations .....	.....
2207-0300 Scope and Methods in Political Sciences .....	.....
2207-0408 Development of Political Thought to Marx .....	.....

II. Electives—15 credit hours

*2207-0200 Introduction to Politics .....	.....
2207-0203 International Organization & Political Integration .....	.....
2207-0214 Women in Politics .....	.....
2207-0301 American Party System .....	.....
2207-0302 Public Opinion & Pressure Groups .....	.....
2207-0303 The Politics of Development and Modernization .....	.....
2207-0304 State & Local Government .....	.....
2207-0305 Introduction to Public Administration .....	.....
2207-0306 Campaign Politics .....	.....
2207-0307 American Political Thought .....	.....
2207-0308 Ethnic Politics in America .....	.....
2207-0309 Urban Politics .....	.....
2207-0310 Public Administration .....	.....
2207-0311 Governmental Budgeting .....	.....
2207-0315 Urban Administration .....	.....
2207-0401 Constitutional Law .....	.....
2207-0402 Government & Politics of Africa .....	.....
2207-0403 Government and Politics of the Far East .....	.....
2207-0404 Government & Politics of South Asia .....	.....
2207-0405 Government & Politics of the U.S.S.R. .....	.....

*Not to be taken by Political Science Majors

2207-0409	Modern Political Thought	3
2207-0410	Directed Study	3
2207-0411	Black Politics in America	3
2207-0412	Government and Politics in Communist East Europe	3
2207-0413	Elected Topics	3
2207-0414	Law of Society: Civil Law	3
2207-0415	Law & Society II: Criminal Law	3
2207-0425	Politics of Federal Bureaucracy	3
2207-0426	Seminar and Internship in Public Administration	3
2207-0430	International Law	3

COURSE DESCRIPTIONS

2207-0102, 0103 American Government I and II

Principles and problems of political science and government stressing constitutional and political process of the national government in the U.S. 3 s.h. ea.

2207-0200 Introduction to Politics

Government and politics in the contemporary world with particular reference to American politics and institutions. Not for Political Science Majors. 3 s.h.

2207-0201 Comparative Politics

Constitutional principles, governmental institutions and political processes of selected contemporary states with emphasis on major European governments. 3 s.h.

2207-0202 International Relations

Recent and contemporary world politics and the foreign relations and policies of selected states. 3 s.h.

2207-0203 International Organization and Political Integration

Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations. 3 s.h.

2207-0214 Women in Politics

The role of women in the functioning of the American political system. 3 s.h.

2207-0300 Scope and Methods in Political Science

The development of the discipline of political science; basic concepts and research trends; the behavioral movement and post-behavioral reactions. 3 s.h.

Prerequisite: 2207-0102 and 0103*.

2207-0301 American Party System

Organization, function and practice of political parties in the U.S.; campaign functions, membership problems, political finance and policy-formation practices. 3 s.h.

Prerequisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.

2207-0302 Public Opinion & Pressure Groups

The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process. 3 s.h.

Prerequisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.

2207-0303 Politics of Development & Modernization

The major contemporary schools of political modernization and development theory; interrelationship among political, social and economic variables. 3 s.h.

207-0304 State and Local Government

State political systems, including their administrative and local sub-systems; Federal-state and inter-state relations; the political institutions of New Jersey. 3 s.h.

Prerequisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.

*Prerequisites may be waived by instructor.

2207-0305 Introduction to Public Administration

Literature and developments in the field of public administration; the federal bureaucracy in the policy-making process. 3 s.h.

Prerequisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.

2207-0306 Campaign Politics

This course is taught in election years and provides the student with field experience at the local precinct or party level. 3 s.h.

2207-0307 American Political Thought

The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present. 3 s.h.

Prerequisite: 2207-0102 or 2207-0103 or 2207-0200*, or permission of instructor.

2207-0308 Ethnic Politics in America

The political behavior of American ethnic groups from the Puritans to the Puerto Ricans. 3 s.h.

2207-0309 Urban Politics

The policies, processes, inter-relationships and organization of governments in heavily-populated areas. 3 s.h.

2207-0310 Public Personnel Administration

The problems and processes in the U.S. of public personnel administration at the state and local level. 3 s.h.

Prerequisite: Introduction to Public Administration, American Government II or permission of instructor.

2207-0311 Governmental Budgeting

The budgetary process in governmental agencies from the perspective of political demands and influences. 3 s.h.

Prerequisite: Introduction to Public Administration, American Government II or permission of instructor.

2207-0315 Urban Administration

Problems and policy-making in the larger urban or metropolitan complexes. 3 s.h.

Prerequisite: Introduction to Public Administration, American Government II or permission of instructor.

2207-0401 American Constitutional Law

The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in selected cases. 3 s.h.

2207-0402 Government & Politics of Africa

Governmental and political development, organization and practices in sub-Saharan Africa. 3 s.h.

2207-0403 Government & Politics of the Far East

The government and politics of Japan, China and Korea in the contemporary world. 3 s.h.

2207-0404 Government & Politics of South Asia

The political experiences and institutions of the Indian subcontinent since 1947; the Republic of India; Pakistan, Ceylon and Bangladesh. 3 s.h.

2207-0405 Government & Politics of Latin-America

Governmental and political development, organization and practices in the state of Middle America and South America. 3 s.h.

2207-0406 Government & Politics of the Middle East

Government and politics in the Arab states, Turkey, Israel and Iran. 3 s.h.

2207-0407 Government & Politics of the U.S.S.R.

The political and institutional organizations of the Soviet Union; contemporary political issues; party and governmental structures. 3 s.h.

2207-0408 Development of Political Thought to Marx

Selected major political philosophies from Plato and Aristotle, through Hobbes and Locke to Hegel. 3 s.h.

2207-0409 Modern Political Thought

Selected political philosophers from Marx to the present. 3 s.h.
Prerequisite: 2207-0408, or permission of instructor.

2207-0410 Directed Study

Juniors and seniors may elect three to six credits of independent study under the direction of a member of the political science staff. 3 s.h.

207-0411 Black Politics in America

Black participation in the American political system from the colonial period to the present. 3 s.h.

207-0412 Government and Politics of Communist East Europe

The political and governmental organizations of the Communist countries of Eastern and Central Europe (exclusive of the U.S.S.R.); institutions, practices and ideologies including inter-regional relations. 3 s.h.

207-0414 Law and Society: Civil Law

The American legal system with particular emphasis upon civil law. 3 s.h.
Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

207-0415 Law and Society: Criminal Law

The American legal system with particular emphasis upon criminal law. 3 s.h.
Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

207-0425 Politics of Federal Bureaucracy

Depth examination of the federal bureaucracy in relationship with national, state and local agencies. 3 s.h.
Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

207-0426 Seminar and Internship in Public Administration

One or two semester field experience in local government. Application must be made directly to the instructor in preceding semester.

5 s.h., first semester; 4 s.h., second semester

Prerequisites: Two courses in the Public Administration Minor Area or permission of the instructor.

207-0430 International Law

The nature and place of international law in the conduct of international relations. 3 s.h.

Minor in Political Science

The department maintains a minor program for all majors at the college. It involves completion of 18 semester hours credits in the above major program consisting of required and elective courses. See department chairman or any member of the department for details.

Department of Psychology

Professors: Seymour, Chairman; Brower; Brown; Buchner; Floyd; Hauer; Rotter; Runden; Salny; Seidman

Associate Professors: Draper, Haupt, Kraemer, Krumacher, Sugarman, Williams, Worms

Assistant Professors: Aronow; Badin; Cicerone; Danielson; Hoover; Duryea Friedman, M; Friedman, S.; Garcia; Garibaldi; Goodkin; Herman; Kantor LeMay; Locher; Schwartz; Siiter; Townsend; Unger; Waldstedt; Wiser Koppel

Instructors: Cheu, Osgood

Undergraduate courses in psychology: 1) provide a sound basis for later professional or graduate training in psychology; 2) satisfy the needs of students, majors and non-majors, who are interested in psychology primarily as part of a broad liberal education; 3) provide psychological principles and techniques as intellectual tools for work in other social and biological sciences, and in professional fields such as social work, journalism, business and law; and 4) provide courses for future teachers, as described by the School of Education and required for teacher certification in the State of New Jersey.

Psychology Major

I. Requirements		semester hou
2001-0101	General Psychology I: Growth and Development	
2001-0105	General Psychology II: An Experimental Approach	
2001-0110	Quantitative Methods in Psychology	
2001-0215	Experimental Psychology	
II. Electives: 21 hours from the following with at least one course each from one, two and three-starred groups:		
2001-0109	Man and His Environment	
2001-0200	Educational Psychology	
2001-0201	Child Psychology	
2001-0202	Adolescent Psychology	
2001-0210	Psychology of Individual Differences	
2001-0218	Experimental Analysis of Human Behavior	
2001-0225	Psychology of Adjustment	
2001-0227	Psychological Aspects of Human Sexuality	3
2001-0255	Environmental Psychology	3
2001-0270	Industrial and Organizational Psychology	3
2001-0280	Introduction to Community Psychology	3
*2001-0300	Teaching of Psychology	3
*2001-0302	Psychology of Women	3
*2001-0303	Psychosocial Aspects of Aging	3
***2001-0310	Psychological Tests and Measurements	3
***2001-0320	Psychology of the Handicapped	3
***2001-0325	Psychology of the Gifted	3
***2001-0328	Abnormal Psychology	3
*2001-0332	Psychological Foundations of Personality	3
*2001-0335	Social Psychology	3
**2001-0340	Verbal Learning and Memory	3
**2001-0342	Principles of Conditioning and Learning	3
**2001-0343	Comparative Psychology	3
**2001-0348	Psycholinguistics	3
**2001-0350	Physiological Psychology	3
**2001-0352	Perception	3
**2001-0355	Motivation	3
**2001-0360	History and Systems of Psychology	3

***2001-0370	Psychological Aspects of Consumer Behavior	3
*2001-0379	Psychology and Literature	3
***2001-0380	Externship in Community Psychology	3
***2001-0383	Psychology of Aggression	3
2001-0400	Seminar in Psychology	3
2001-0402	Social Role of Psychotherapies	3
*2001-0405	Psychological Anthropology	3
2001-0442	Curriculum and Methods in Sex Education	3
2001-0446	Today's Woman	3
2001-0463, 0464	Psychological Foundation of Music I, II	2 ea.
2001-0491, 0492	Independent Study I, II	1-3 ea.

Minor in Community Psychology

The Psychology Department has developed a course concentration in Community Psychology. Community Psychology refers to the concept of bringing psychological techniques, services and methods to indigents of the community, and of rendering aid in on-going social problems. It focuses on intervention, behavior changes and dysfunctional behavior considered in the context of the immediate environment and of the effect on the community as well as the individual. The program provides the groundwork for further training in law, political science, anthropology, psychology, sociology, economics, social studies, education and other disciplines. It can also lead to para-professional work within the community. Leonard J. Buchner, Ph.D., Coordinator.

A. Requirements

		semester hours
2001-0101	General Psychology I: Human Growth & Development	3
2001-0280	Introduction to Community Psychology	3
2001-0380	Psychology and Community Services	3

B. Core Courses—9 semester hours

2001-0225	Psychology of Adjustment	3
2001-0227	Psychological Aspects of Human Sexuality	3
2001-0255	Environmental Psychology	3
2001-0302	Psychology of Women	3
2001-0335	Social Psychology	3
2001-0370	Psychological Aspects of Consumer Behavior	3
2001-0383	Psychology of Aggression	3
2001-0405	Psychological Anthropology	3
2001-0491, 0492	Independent Study	1-3

C. Multidisciplinary Courses—3 semester hours

The following are suggestions only. Appropriate choice will be made with advice from all Departments concerned.

2206-0462	Urban Geography	3
2205-0462	People and Cities	3
2207-0309	Urban Politics	3
2208-0306	Patterns of Community	3
0837-0301	Addictions and Dependencies	3
1301-0419	Special Studies in Family and Child Services	3

REQUIRED TOTAL 21

COURSE DESCRIPTIONS

2001-0101 General Psychology I: Growth and Development

Psychology as an applied behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting. 3 s.h.

2001-0105 General Psychology II: An Experimental Approach

Psychology as an experimental and research oriented science; experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory. 3 s.h.

Prerequisite: 2001-0101

2001-0109 Man and His Environment

Interdisciplinary with Geography; man's modification and understanding of the environment; future human and environmental projections. 3 s.h.

2001-0110 Quantitative Methods in Psychology

Descriptive statistics and statistical inference; application of statistical tools in testing and research. Logic of statistics; organization and presentation of statistical data; measures of central tendency, variability, and relative position; probability and the normal curve; measures of correlation, parametric and nonparametric; tests of significance. Students who have not completed Algebra I should contact the instructor about the possibility of preparation for this course. 3 s.h.

Prerequisite: 2001-0101.

2001-0200 Educational Psychology

Required for teaching. Child and adolescent development; fundamentals of learning theory as applied to classroom situations, learning inhibition and academic nonachievement, personal-social adjustment, measuring and evaluating teaching-learning, creativity. 3 s.h.

Prerequisite: 2001-0101.

2001-0201 Child Psychology

Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children. 3 s.h.

Prerequisite: 2001-0101.

2001-0202 Adolescent Psychology

Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotion and judgment; problems of adolescents with practical application to oneself and other. 3 s.l.

Prerequisite: 2001-0101.

2001-0210 Psychology of Individual Differences

The problems, methods and results of differential psychology. 3 s.

Prerequisite: 2001-0101.

2001-0215 Experimental Psychology

Laboratory methods of research in motivation, perception and learning; design and execution of exploratory investigations. Two lectures and four hours of laboratory work. 4 s.

Prerequisite: 2001-0110.

2001-0218 Experimental Analysis of Human Behavior

Applications of operant conditioning methods to practical human problems primarily to handicapped children and adults; laboratory exercises and experiments. May include increasing and decreasing frequency, successive approximations, and teaching of complex behaviors through discrimination, fading and chaining procedures. Two lectures and four laboratory hours. 4 s.

Prerequisite: 2001-0105 General Psychology II.

2001-0225 Psychology of Adjustment

Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc. 3 s.

Prerequisite: 2001-0101.

2001-0227 Psychological Aspects of Human Sexuality

Behavior and attitudes influenced by basic sexuality; widens perspectives to aid in decision-making. Developmental periods and sexual relationships; connections between psychological theory and sexual mores; genetic understandings. 3 s.h.
Prerequisite: 2001-0101. One basic psychology course is necessary for work in this area.

2001-0255 Environmental Psychology

The influence of the physical environment on the behavior of organisms: population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation. 3 s.h.
Prerequisites: 2001-0101 and permission of the instructor.

2001-0270 Industrial and Organizational Psychology

Psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, job selection, motivation, executive leadership. Commonly-used selection tests evaluated. 3 s.h.

Prerequisite: 2001-0101.

2001-0280 Introduction to Community Psychology

Integration of social psychology with mental health in resolution of community problems. Social psychological theories and empirical strategies used to study dynamics of power, membership, change and deviance. Roles of community psychologists; mental health center. 3 s.h.

Prerequisite: 2001-0101, General Psychology I Growth and Development.

2001-0300 The Teaching of Psychology

Objectives, content, procedures and evaluation of teaching psychology, kindergarten through junior college. Organization of classroom activities, lesson planning, techniques of motivation, multisensory aids and applications of principles to classroom situations. Observation and participation in classroom activities; preparation for student teaching. Prerequisites: 2001-0101 and 2001-0200. 3 s.h.

2001-0302 Psychology of Women

Contemporary issues in the psychology of women (an opportunity for original research). Theoretical positions and recent research in the area. 3 s.h.
Prerequisite: Six credit hours in psychology (some knowledge of the content areas and methodology of psychology is required).

2001-0303 Psychosocial Aspects of Aging

Overview of later maturity and aging emphasizing psychological and social aspects and processes; problems, issues, needs of the aging. Field experiences. 3 s.h.
Prerequisite: 2001-0101 and 2001-0201 or 2001-0202 or equivalent.

2001-0310 Psychological Tests and Measurements

Tests of intelligence, aptitude, achievement and personality; principles of psychological testing; approaches to test construction. 3 s.h.
Prerequisite: 2001-0110.

2001-0320 Psychology of the Handicapped

Current practices and problems of exceptional children and youth. The unique needs of individuals with handicaps of intellectual, sensory, motor, neurological, social and emotional origin. Analyses of case materials applied to the psychology of exceptionality. Prerequisite: 2001-0101 or 2001-0105 or 2001-0201. 3 s.h.

2001-0325 Psychology and Education of the Gifted

Study of recent literature and research of intellectually and creatively gifted individuals, including children. Emphasis on discovery, motivation, characteristics and special problems of giftedness. Case studies of gifted historical figures. Extensive reading on major themes of the course. 3 s.h.
Prerequisites: 2001-0101, 0105 or 0201

2001-0328 Abnormal Psychology

Psychopathological processes: neuroses, psychoses and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.

3 s.h.

Prerequisite: 2001-0105 and either 2001-0225 or 0450.

2001-0332 Psychological Foundations of Personality

Current approaches and theories of personality development and organization. 3 s.h.
Prerequisite: 2001-0105.

2001-0335 Social Psychology

Social behavior of the individual and the group. Social perception, motivation and learning; attitudes and values; development and dynamics of social groups; intergroup tension and prejudice; mass phenomena; psychological approaches to social issues. 3 s.h.
Prerequisite: Six semester hours in psychology.

2001-0340 Verbal Learning: Memory

Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man. 3 s.h.
Prerequisite: 2001-0105.

2001-0342 Principles of Conditioning and Learning

Experimental analysis of the major phenomena of learning and conditioning mainly at the animal level. Theoretical issues and some major theories of learning. Students may study selected topics more extensively.

3 s.h.

Prerequisite: 2001-0215 or permission of the instructor.

2001-0343 Comparative Psychology

Experimental and field studies of behavior in selected animal species with particular reference to the behavior of vertebrates. Detailed study of instinctive behavior and imprinting; respondent and operant behavior; procedures and variables in acquiring new forms of behavior.

3 s.h.

Prerequisite: 2001-0215 or permission of the instructor.

2001-0348 Psycholinguistics

The study of language through linguistic behavioral and cognitive methods. Basic linguistic ideas used for the explications of problems in grammar, cognitive structures, semantic meaning and speech production and comprehension.

3 s.h.

Prerequisites: 2001-0105 and permission of instructor.

2001-0350 Physiological Psychology

Anatomical, neural and biochemical bases of behavior. Localization of function, neural-hormonal interaction, sensory and motor functioning, emotions, the relationship between neurophysiological processes and personality.

3 s.h.

Prerequisite: 2001-0215 or permission of the instructor.

2001-0352 Perception

The theory and procedure of perceptual research. Theoretical approaches review modern psychophysical and perceptual research. Traditional problems of perceptual constancies of size and color brightness.

3 s.

Prerequisite: 2001-0215 or permission of the instructor.

2001-0355 Motivation

The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation; prime emphasis on the experimental, rather than the theoretical literature; motivational concepts relevant to human and animal research.

3 s.

2001-0360 History and Systems of Psychology

Historical development of psychology; comparative analysis of the major schools of contemporary psychology; new trends and movements in psychological theory. 3 s.h.
 Prerequisite: 2001-0105 and 6 additional semester hours in Psychology (Not including 2001-0100).

2001-0370 Psychological Aspects of Consumer Behavior

Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising. 3 s.h.
 Prerequisite: 2001-0215 Experimental Psychology.

2001-0379 Psychology and Literature

Terminology and techniques of modern depth psychologies—Freudian, Jungian, Adlerian—to illuminate the literary portrayal of human character in masterpieces of world literature; study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children. 3 s.h.
 Prerequisite: 6 semester hours in Psychology or English.

2001-0380 Externship in Community Psychology

Supervision is provided in a variety of community action programs which have preventive as well as treatment goals. Day and hour assignments can usually be arranged, but effective student participation will require a three hour block of time in order to serve directly in a community setting. 3 s.h.
 Prerequisites: 2001-0101 and 2001-0280 &r written permission.

2001-0383 Psychology of Aggression

The root causes of violence in America. "There is no more crucial domestic problem, a more searching, dilemma than that of violence in urban areas. Our most sensitive domestic issues center around poverty, frustration, the police and racial conflict." 3 s.h.
 Prerequisite: 2001-0101 General Psychology, 2001-0110 Quantitative Methods or Equivalent and 2001-0225 Psychology of Adjustment.

2001-0400 Seminar in Psychology

Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only. 3 s.h.
 Prerequisite: 2001-0101 General Psychology, 2001-0215 General Psychology II, 2001-0110 Quantitative Methods in Psychology and 2001-0215 Experimental Psychology.

2001-0402 Social Role of Psychotherapies (also listed as 2208-0402)

The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements. Cross-listed with Sociology. 3 s.h.
 Prerequisites: two courses in psychology.

2001-0405 Psychological Anthropology

Cultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants. 3 s.h.
 Prerequisites: 2001-0101, 2202-0100.

2001-0442 Curriculum and Methods in Sex Education

Developing curricula to fit individual schools; implementation demonstrated; current texts and audio-visual materials analyzed. 3 s.h.

2001-0446 Today's Woman

Advanced lecture-discussion of history and current status of woman's liberation movement; man's reaction; achievement motive; witch trials; black woman; Eastern and Western woman; other selected topics. 3 s.h.

2001-0463 Psychological Foundations of Music I (also listed as 0117-0463)

Inter-relations of physical and psychological aspects of music; perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research. 2 s.h.

Prerequisite: three courses in psychology and instructor's permission.

2001-0464 Psychological Foundations of Music II (also listed as 0117-0464)

Continuation of 2001-0463.

2001-0491 Independent Study I**2001-0492 Independent Study II**

Individual project under close supervision of a faculty member.

1-3 s.h. ea.

Prerequisite: Permission of instructor.

Department of Sociology

Professors: Alloway, Pratt

Associate Professors: Kim, Chairman

Assistant Professors: Chasin, Foss, Freund, Friedman, Gordon, Klajman,
Kirzweil, Livingston, Martin, McGuire

Instructors: Vincent, Krinsky

Sociology is centrally concerned with the questions: What is the nature of social existence? What is the relationship between people and social institutions? How are these institutions structured and related to one another? The discipline attempts to develop a systematically-reasoned and empirically-based understanding of the society-group as the ground for human existence. The courses should explore particular facets of the social structure, e.g., power, religion, social class, etc. Students develop a clear understanding of the nature of society and of our society in particular. Additionally, they grasp the ways of developing systematic and verified knowledge about societies and their functioning. Finally, insight into the conversion of knowledge into action will result.

The program in sociology serves students of several different interests. One group will enter graduate work in sociology and go on to a sociologically-based career, including advancement of the discipline. A second group will enter professional schools for which a foundation in sociology is recommended. The third group, planning a terminal program, concentrate in sociology for whatever utilities it has for them. The fourth group are the students in a general education preparation in sociology. Finally, the program serves the general education and distribution requirements of the student majoring in some other field.

Four Areas of Specialization

Each student is advised to select one of the following concentrations:

A. Sociological

The specialization is most suitable for students considering graduate work in Sociology and for students seeking a terminal program designed to produce a systematic understanding of the structuring and functioning of society.

B. Interdisciplinary

This concentration is for a student seeking a dual major in related fields, or one seeking from 15 to 18 credits in a cognate field, such as sociology and philosophy, sociology and anthropology, sociology and the arts, or sociology and recreation-sports. The sociology department is participating with the departments of fine arts, music and speech-theater in interdisciplinary studies in urban cultural development. The student may organize a program and have it approved, or may participate in an existing plan.

C. Pre-Professional

Careers utilizing a sociological background include teaching, marketing, public opinion research, social work, crime prevention, voluntary group work and recreation management. Sociology is a good foundation for careers in law,

Graduate work in the career field would generally be needed. Consortium arrangements are made with educational centers, government at local, national and world levels and professional agencies.

D. Applications of Sociology and Social Action

This concentration is for students primarily concerned with the problem of converting knowledge into action. This may be in regard to fundamental social issues such as inequality, freedom of expression and action, violence and conflict, coercion, privacy and autonomy and others. On the other hand, it could be in regard to direct social work action. The approval may range from policy analysis and formation to program execution.

SPECIAL LEARNING OPPORTUNITIES

The department encourages students to include in their programs a reasonable amount of off-campus learning, such as study abroad or at specialized centers in the United States, a semester at another institution, work-study arrangements, credit by examination and intern or extern program arrangements. The department urges students to select the individual program-planning option.

Sociology Major

I. Requirements

The student is required to take three credits each of theory, methodology and advanced courses and an action course. The advanced course may, at the option of the student, be a senior course, or a senior seminar to be announced by the Department. Additional credits may be required of students within adequate backgrounds in sociology as determined by department examination.

Select one course from each section below

	semester hours
Theory: 2208-0312 Sociological Theory: Heuristic Approach	3
2208-0313 Sociological Theory: Critical Analysis	3
2208-0411 Selected Topics in Sociological Theory	3
Methodology: 2208-0210 Statistics for Sociologists	3
2208-0301 Sociological Research Methods	3
2208-0310 Directed Independent Research (if designated as Methods)	3
2208-0412 Selected Topics in Sociological Research Methods	3
Advanced Courses: a 300 or 400 level course, with approval of advisor.	
Action Course: A three-semester hour Action Course, selected from:	
2208-0300 Externship in Sociology (may be in a campus organization)	3
2208-0333 Community Organization in the Arts	3
2208-0410 Social Action Practicum	3
2208-0414 Selected Topics in Applied Sociology	3

J. Electives: Eight of the following:

2208-0100 The Sociological Perspective	3
2208-0101 Criminology	3
2208-0112 Sociology of Leisure	3
2208-0113 Social Problems	3
2208-0200 Sociology of Education	3
2208-0202 Racial and Ethnic Relations	3
2208-0203 Organized Crime	3
2208-0204 Sociology of the Family	3
2208-0205 Black Family	3
2208-0206 Individual and Society	3
2208-0210 Statistics for Social Research	3
2208-0211 Sociology of Health and Illness	3
2208-0212 Sociology of Social and Technical Change	3
2208-0213 Social Stratification	3
2208-0214 Sociology of Violence and Conflict	3

2208-0231	Social Bases of the Arts	3
2208-0300	Externship in Sociology	3
2208-0301,	0302 Sociological Research Methods I and II	3 ea.
2208-0303	Large Scale Organizations	3
2208-0304	Sociology of Work and the Professions	3
2208-0305	Demography	3
2208-0306	Patterns of Community	3
2208-0307	City and the Arts	3
2208-0308	Sociology of Constructive Voluntary Action	3
2208-0309	Voluntary Organizations in American Life	3
2208-0310	Directed Independent Research	3
2208-0311	Urban Sociology	3
2208-0312	Sociological Theory: Heuristic Approach	3
2208-0313	Sociological Theory: Critical Analysis	3
2208-0320	The Sociology of International Communities	3
2208-0330	Political Sociology	3
2208-0331	Sociology of Power	3
2208-0332	Sociology of Popular Arts	3
2208-0333	Community Organization in the Arts	3
2208-0334	Comparative Social Systems	3
2208-0341	Sociology of Poverty and Welfare	3
2208-0401	Social Structure of American Society	3
2208-0402	The Social Role of Psychotherapies	3
2208-0403	Sociology of Knowledge	3
2208-0404	Sociology of Religion	3
2208-0405	Deviance and Social Control	3
2208-0406	Sociology of Small Groups	3
2208-0407	Sociology of the Mass Media	3
2208-0410	Social Action Practicum	3
2208-0411	Selected Topics in Sociological Theory	3
2208-0412	Selected Topics in Social Research Methods	3
2208-0413	Selected Topics in Institutional Processes	3
2208-0420	Sociology of Law	3
2208-0421	The Social Uses of Language	3
2208-0422	Sociology and Philosophy	3
2208-0425	Sociology of the Future	3
REQUIRED TOTAL		3

COURSE DESCRIPTIONS

2208-0100 The Sociological Perspective

A systematic introduction to various sociological explanations of human behavior. No to be taken as an elective toward the Sociology major. 3 s.i.

2208-0101 Criminology

Crime, the administration of criminal justice and criminal rehabilitation in American society. Cause and effect relationships in criminal deviancy, use of law in social control and police and minority group relations. 3 s.

2208-0112 Sociology of Leisure

Leisure as a social problem, work and leisure, the use of leisure time in modern society. 3 s.

2208-0113 Social Problems

How social structure and dominant social institutions are related to problems of greatest concern to people; various approaches to the study of social problems; the implications of each. 3 s.

2208-0200 Sociology of Education

The entire socialization process; the school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; the implications of traditionally sacrosanct roles and statuses inherent to education. (Not to be used for teacher certification requirement.)

3 s.h.

2208-0202 Racial and Ethnic Relations

The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data.

3 s.h.

2208-0203 Organized Crime in America

Organized crime as a sociological phenomenon; the methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.

3 s.h.

2208-0204 Sociology of the Family

The family from a comparative and historical perspective; the structure and role of the family in contemporary society.

3 s.h.

2208-0205 Black Family

The black family in American society; historical perspectives and contemporary conflicts surrounding the black family.

3 s.h.

2208-0206 Individual and Society

Man as a biological, psychological and social being; the socialization process and its effect on the individual; the structure and function of groups.

3 s.h.

2208-0210 Statistics for Sociologists

The use of descriptive summary and comparative techniques; tools for the analysis of relationships in data generated in research, or for the evaluation of published research. Recommended in preparation for the course in research methods.)

3 s.h.

2208-0211 Sociology of Health and Illness

Social conceptions of physical and mental health and illness; the social role of the sick"; comparative medical beliefs and practices in American society; medical institutions and care; medical personnel and professional ideologies; the relationship between social stratification and health and illness.

3 s.h.

2208-0212 Sociology of Social and Technical Change

The statics and dynamics of modern societies; institutional development and maintenance; possibilities for reform and revolutionary movements.

3 s.h.

2208-0213 Social Stratification

The inequalities of social ranking systems in virtually all known societies; theoretical and empirical approaches of stratification; delineating the variables of power; power elites, class consciousness, alienation and class mobility.

3 s.h.

2208-0214 Sociology of Violence and Conflict

The social sources of violence and conflict; the sociological approach contrasted with biological and psychological ones; interpersonal and institutionalized violence and conflict; the relationship between conflict and violence; types of violence and conflict, war, crime, class conflict and ethnic and racial hostilities.

3 s.h.

2208-0231 Social Bases of the Arts

The impact of social forces and institutions on the fine, performing and decorative arts; the social importance and functions of the several arts.

3 s.h.

2208-0300 Internship in Sociology

Students will select an institution in the metropolitan area in which to become participant-observer. Application of a sociological perspective to the problems and structure of educational institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.

3 s.h.

2208-0301, 0302 Sociological Research Methods I, II

The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science. 3 s.h.
Prerequisite: Taken serially. (It is recommended that 2208-0210 be taken before 2208-0301.)

2208-0303 Large Scale Organizations

The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems. 3 s.h.

2208-0304 Sociology of Work and Professions

The meaning of work in society; professionalization; occupation ideologies; social-psychological aspects of attitudes toward work and specific occupations; occupational stratification; social structures within which work takes place. 3 s.h.

2208-0305 Demography

Problems of population and demographic change; social and psychological foundation of fertility in the contexts of social class and religious ideologies; the impact of urbanization; the uses of demographic data. Transcultural studies, racial differences and ecological factors. 3 s.h.

2208-0306 Patterns of Community

Urban, suburban, rural, regional, national and international communities; comparison, contrast and synthesis of the sociological research in these areas. 3 s.h.

2208-0307 The City and the Arts

The arts in the functioning of the city; cityscape and its social meanings; functions of the various arts in large cities; impact of city types upon the arts; city cultural sub-groups and the arts. 3 s.h.

2208-0308 Sociology of Constructive Voluntary Action

Patterns of behavior that exceed normative expectations and the extent of such behavior under circumstances such as war, individual and community disaster, intensive social action periods and non-crisis periods. Contemporary social action processes such as civil rights and black power movements, national service programs and international service projects. 3 s.h.

2208-0309 Voluntary Organizations in American Life

Voluntary organizations in society, comparative study of profit-making and non-profit-making organizations and comparison of voluntary organization in democratic and non-democratic nations. 3 s.h.

2208-0310 Directed Independent Research

Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval. 3 s.i.

2208-0311 Urban Sociology

Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic condition municipal and regional influences of metropolitan centers. 3 s.

2208-0312 Sociological Theory: A Heuristic Approach

The nature of sociological theory: how an understanding of social phenomena is possible, how sociological theory develops, what pre-suppositions it is based on, and how different perspectives on social reality can be used by the student of sociology. 3 s.

2208-0313 Sociological Theory: A Critical Analysis

A comparison of important theories on key themes in sociology: the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, a social conflict and change. 3 s.

2208-0320 The Sociology of International Communities

The Sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. 3 s.h.

2208-0330 Political Sociology

This course will endeavor to give the undergraduate student a relatively complete understanding of the social dynamics of political actions on various levels. 3 s.h.

2208-0331 Sociology of Power

The nature of power; power on the national level in the United States; alternative theoretical approaches; the historical origins of several of these theories. 3 s.h.

2208-0332 Sociology of Popular Arts

Components of entertainment including paperback and magazine fiction, movies, theater and popular music; the audiences, content, performers, managers and owners. 3 s.h.

2208-0333 Community Organization in the Arts

A case study approach, including field work in a laboratory community, analyzing community structure in the arts on the local level. The social forces in the local arts council movement; the amateur and semi-professional arts groups in fine, performing, and decorative arts; the community concert society; social correlates to local participation; home arts. 3 s.h.

2208-0334 Comparative Social Analysis

Comparative sociological schemes; the analytical blocks of total society: kinship, family and marriage; policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations. 3 s.h.

2208-0341 Sociology of Poverty and Welfare

Poverty and welfare institutions as social phenomena; the meaning of poverty; absolute and relative deprivation; the functions of social welfare institutions. 3 s.h.

2208-0401 Social Structure of American Society

Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society. 3 s.h.

2208-0402 Sociology of Psychotherapies in America

This course introduces students to various psychotherapies, from classical Freudian to encounter groups in relation to existing culture and to the feasible application of these therapies. 3 s.h.

2208-0403 Sociology of Knowledge

The social origins of anything considered to be knowledge in a given social environment. 3 s.h.

2208-0404 Sociology of Religion

The social bases of religious belief and activity; religious movements, denominationism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons. 3 s.h.

2208-0405 Deviance and Social Control

Various theoretical perspectives on human deviance; the inter-action of the forces of social control and "deviant" behavior. 3 s.h.

2208-0406 Sociology of Small Groups

To familiarize the student with the necessary theoretical perspectives for the analysis of individual and group behavior, both those specific to small groups and those of a more sociological and psychological nature. 3 s.h.

Prerequisite: Individual and Society 2208-0206

2208-0407 Sociology of Mass Media

The social aspects of the organization and functioning of television, radio, press, magazines, film and other media. The media in social control, in information and other communication, and as forces influencing behavior. 3 s.h.

2208-0410 Social Action Practicum

Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology."

3 s.h.

2208-0411 Selected Topics in Sociological Theory

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval.

3 s.h.

2208-0412 Selected Topics in Sociological Research Methods

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval.

3 s.h.

2208-0413 Selected Topics in Institutional Processes

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval.

3 s.h.

2208-0414 Selected Topics in Applied Sociology

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval.

3 s.h.

2208-0420 Sociology of Law

The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

3 s.h.

Prerequisites: 2208-0100 Sociological Perspectives

2208-0421 The Social Uses of Language

To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

3 s.h.

2208-0422 Sociology and Philosophy

The philosophical roots, as well as the relevance of philosophy for the sociological enterprise will be a major theme. An emphasis will also be placed on the contributions that sociology may offer to the task of "philosophizing."

3 s.h.

Prerequisites: 2208-0312 Sociological Theory: Heuristic Approach, or 2208-0313 Sociological Theory: Critical Analysis, or permission of the instructor.

2208-0425 Sociology of the Future

An examination of the study and probable effects of alternative futures to human Society: the role of prediction by scientific means, and the use of probabilities in projecting the outline of our society in the future.

Department of Physics and Geoscience

Professor: Kowalski, (S. W.)

Associate Professors: Hamilton; Kowalski, (L), Chairman; Minor; Ramsdell

Assistant Professors: Derengowski-Stein, Filas, Hamdan, Hodson, Kelland, Mal Thiruvathukal, West

The department offers major and minor programs in Physics and Geoscience. The introduction of the liberal arts program, with the increase in elective courses and the acquisition of new equipment, has enabled Montclair to offer an expanded and improved program for those intending to become physics and earth science teachers. Laboratory experiments are conducted under the direct supervision of faculty members and by graduate assistants. The program in Physics has been designed to give students background in mathematics as well as a basic core of courses. The program in Geoscience gives the student a basic core of Geoscience courses and background in related sciences and mathematics.

Freshman courses offered for majors assume exposure to biology, chemistry a

physics as well as three years of preparatory mathematics in high school. A student majoring in physics should have four years of high school preparatory mathematics.

Major course offerings, with the proper selection of elective courses, will enable the student to prepare for graduate work in the major field or will serve as a preprofessional program for science-related fields.

The minor course offering will complement the student's knowledge, preparing him for interdisciplinary work in teaching, research, industry, and graduate study.

Physics Major

I. Requirements	semester hours
1902-0101, 0102 General Physics I and II	4 ea.
1902-0210 Mechanics	4
1902-0240 Electricity and Magnetism	4
1902-0350 Optics	4
1902-0460 Modern Physics	4
II. Required Collateral Courses	
1905-0120, 0121 General Chemistry I and II	4 ea.
Select 4 courses from the list below:	
1701-0115 Introductory Mathematical Analysis	3
1071-0116, 0215, 0216 Calculus A, B, C	3 ea.
1701-0315 Applied Differential Equations	3
III. Electives—With the advice of the departmental academic advisor the student selects at least 10 semester hours from:	
1902-0245 Electronics	3
1902-0280 Astronomy	4
1902-0310 Advanced Mechanics	3
1902-0320 Thermodynamics	3
1902-0340 Advanced Electricity and Magnetism	3
1902-0377 Mathematical Physics	3
1902-0462 Nuclear Physics	4
1902-0464 Quantum Mechanics	3
1902-0470 Solid State Physics	3
1902-0490 Literature Research in Physics	2
1902-0495 Laboratory Research in Physics	1-4
1914-0112 Physical Geology	4

Minor in Physics

(Arts and Sciences Program)

Required Courses	semester hours
1902-0101, 0102 General Physics I and II	4 ea.
1902-0210 Mechanics	4
1902-0240 Electricity and Magnetism	4
Physics Elective	3

SECOND TEACHING FIELD IN PHYSICAL SCIENCE

There is no New Jersey certification in the field of physics alone. Students majoring in a non-science field who desire certification in physics may take the physical science program. In addition to the certification program in the major field, the students must take the following program:

1902-0101, 0102 General Physics I and II	4 ea.
Physics Elective	4
1905-0120, 0121 General Chemistry I and II	4 ea.
Chemistry Elective	5

REQUIRED TOTAL 25

Geoscience Major**I. Requirements**

1914-0112	Physical Geology	4
1914-0114	Historical Geology	4
1914-0433	Invertebrate Paleontology	4
1914-0434	Stratigraphy	4
1914-0443	Mineralogy	4
1914-0444	Petrology	4

Note: The 0433-0434 and 0443-0444 sequences are offered in alternate years.

II. Collateral Requirements

1905-0120, 0121	General Chemistry I and II	4 ea.
1902-0103, 0104	College Physics I and II	4 ea.

Select 2 courses from the following:

1701-0115	Introductory Mathematical Analysis	3
1701-0116, 0215, 0216	Calculus A, B, C	3
1701-0315	Applied Differential Equations	3

Elective Courses*

With the advice of the departmental academic advisor the student selects at least 10 semester hours from

1914-0210	Economic Geology	3
1914-0250	Map Interpretation and Cartography	3
1914-0254	Geomorphology and Climatology of North America	3
1914-0320	Contemporary Problems in Conservation of Natural Resources	3
1914-0325	Environmental Geology	3
1914-0355	World Regional Geomorphology	3
1914-0356	World Regional Climatology	3
1914-0358	Glacial Geology	3
1914-0360	Oceanography	3
1914-0410	Geology of New Jersey	3
1914-0447	Mineralogy of Gem Materials	3
1914-0457	Meteorology	4
1914-0460	Introduction to Oceanography (Physical)	4
1914-0464	Geology of the Oceans	4
1914-0465	Coastal Marine Geology	4
1914-0466	Field Methods in Oceanography and Marine Biology	1
1914-0467	Dynamic Beach Processes	1
1914-0469	Independent Study in the Marine Sciences	1-4
1914-0472	Structural Geology	4
1914-0480	Field Studies in Geoscience	4
1914-0484	Geology Field Trip	1
1914-0490	Seminar in Geoscience	2
1914-0495	Independent Study in Geoscience	2-4

REQUIRED TOTAL 10

*Not all elective courses are offered each year.

TEACHER EDUCATION

Students interested in teacher education should follow the Professional Sequence. In addition, Geoscience majors must complete these courses in related science fields to be eligible for a State of New Jersey Science K-12 Certificate.

Requirements

1902-0103, 0104	College Physics I and II	4 ea.
And select one of the following:		
0401-0105	College Biology	4
0401-0120	Plant Form and Function	4

0401-0130 Invertebrate Zoology	4
0401-0140 Biology of the Cell	3

For Physics-teaching majors, the following additional course in a related science field is needed for the comprehensive Science K-12 Certificate.

Select one of the following:	semester hours
0401-0105 College Biology	4
0401-0120 Plant Form and Function	4
0401-0130 Invertebrate Zoology	4
0401-0140 Biology of the Cell	3

Minor in Geoscience

(Arts and Sciences Program)

Required Courses	semester hours
1914-0112 Physical Geology	4
1914-0114 Historical Geology	4
One of the following two sequences:	
1914-0433 Invertebrate Paleontology	4
1914-0434 Stratigraphy	4
or	
1914-0443 Mineralogy	4
1914-0444 Petrology	4
Geoscience Elective	3

SECOND TEACHING FIELD IN GEOSCIENCE

1914-0112 Physical Geology	4
1914-0114 Historical Geology	4
1914-0457 Meteorology	4
1914-0280 Astronomy	4
1914-0360 Oceanography	3
At least 5 s.h. from one of the following:	
1914-0254 Geomorphology and Climatology of North America	3
1914-0358 Glacial Geology	3
1914-0433 Invertebrate Paleontology	4
1914-0443 Mineralogy	4
1914-0410 Geology of New Jersey	3

Department of Geography

Associate Professor: Boucher, Chairman

Assistant Professors: Ballwanz, Contessa, Hinshawood, Robertson, Singh, Sternberg, Taylor

Geography is the study of all natural and cultural elements found on the surface of the earth. Though individual phenomena are studied in detail by one or another of the academic disciplines, Geography undertakes the unique task of studying the spatial relations of things. It derives its identity from this spatial point of view.

In an attempt to understand the interrelationships of things in space, a view is fostered which integrates the natural, physical and social sciences. Thus the unity of knowledge, necessarily destroyed by the systematic sciences concerned with parts of the whole, is to a high degree restored in Geography, and in a broad scholarship is achieved.

The major in geography is designed to give the student a solid background and training for many career choices; teaching, planning, industry, government, environmental studies, etc.

Minor in Urban Studies

Multidisciplinary and flexible, this concentration guides the student toward an understanding of urban dynamics and assists him in pursuing professional goals. Field work in surrounding urban communities affords direct contact with the urban milieu and establishes relationships between the students and public and private organizations.

This vital and enriching educational experience provides suitable background for graduate education in discipline specialties or for professional fields concerned with urban affairs. At the same time it supplies a substantial base for public service careers community organization activities and other opportunities that are developing as the nation becomes concerned with the environmental conditions of our cities.

Requirements

	semester hours
2206-0206 Introduction to American Urban Studies	
2202, 2205, 2206-0461 People and Cities: Comparative Urban Studies	
2206-0463 Internship in Urban Studies	1
2206-0464 Senior Seminar in Urban Studies	

2

COURSE DESCRIPTIONS

2206-0206 Introduction to American Urban Studies

An interdisciplinary introduction to the development of American cities; current pattern of urbanism and urbanization. The growth and evolution of urban structures, emerging urban suburban cultural styles, and radical and reform responses to critical urban issues.

3 s.

2206-0462 People and Cities: Comparative Urban Studies

(Also listed as 2202-0462 and 2205-0462)

Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world.

3 s.

Electives in Urban Studies

Students may utilize their free electives to select urban-related courses offered many of the departments of the college.

Geography Major

I. Requirements

	semester hours
2206-0100 Principles of Geography	
2206-0200 Cultural Geography	
2206-0309 Research Methods in Geography and Urban Studies	

II. Electives

2206-0109 Man and His Environment	3
2206-0112 Physical Geology	3
2206-0201 Climatology	3
2206-0202 Geography of Anglo America	3
2206-0203 Our Finite Earth: Population and Resources	3
2206-0204 Principles of Land Use	3
2206-0206 Introduction to American Urban Studies	3
2206-0209 American Cityscape: Urban Form and Architecture	3
2206-0222 The Geography of Life and Death	3
2206-0250 Map Interpretations and Cartography	3
2206-0252 Hydrology	3
2206-0300 World Resources and Industries	3
2206-0301 Urban Field Studies	3
2206-0303 Field Geography	3
2206-0304 Geography of Europe	3

2206-0305	Geography of East and Southeast Asia	3
2206-0306	Geography of South Asia	3
2206-0308	Land and Life in Latin America	3
2206-0310	Quantitative Methods in Geography	3
2206-0311	Geography of Manufacturing	3
2206-0312	Historical Geography of the United States	3
2206-0313	Urban Geography	3
2206-0314	The Location of Economic Activity	3
2206-0330	Culture in Transition in India: An Anthropogeographical Approach	3
2206-0331	Urbanization and Environment	3
2206-0352	Fluvial Geography	3
2206-0401	Fundamentals of Remote Sensing of Environment	3
2206-0404	Geo-Ecology	3
2206-0405	Computer Applications in Geography	3
2206-0408	Political Geography	3
2206-0409	Urbanization in World Perspective	3
2206-0411	Problems in Urban Geography	3
2206-0412	Geography of Sub-Saharan Africa	3
2206-0413	Geography of the Middle East	3
2206-0419	Geography of the Soviet Union	3
2206-0421	Population Problems of the World	3
2206-0423	Culture and Resource Utilization	3
2206-0424	Geography of New Jersey	3
2206-0425	Readings in Geography	3
2206-0426	Independent Study in Geography	3
2206-0427	Pro-Seminar in Geography	3
2206-0452	Geohydrology	3
2206-0456	Hydroclimatology	3
2206-0460	Independent Transcultural Study	3
2206-0461	Seminar in International Economic Geography	3
2206-0462	People and Cities: Comparative Urban Studies	3
2206-0463	Internship in Urban Studies	12
2206-0464	Senior Seminar in Urban Studies	3
	REQUIRED TOTAL	33

INTERDISCIPLINARY PROGRAMS

The Geography Department participates actively in several interdisciplinary programs. It is possible for a major in geography to design his own career program in a number of professional fields:

Recommended Courses for Planning Careers:

2206-0204	Principles of Land Use	3
2206-0206	Introduction to American Urban Studies	3
2206-0209	American Cityscape: Urban Form and Architecture	3
1914-0240	Cartography	3
2206-0310	Quantitative Methods in Geography	3
2206-0313	Urban Geography	3
2206-0331	Urbanization and Environment	3
2206-0405	Computer Applications in Geography	3
2206-0411	Problems in Urban Geography	3
2206-0462	People and Cities: Comparative Urban Studies	3
2206-0463	Internship in Urban Studies	12
2206-0464	Senior Seminar in Urban Studies	3

Recommended Courses for Education Careers:

2206-0202	Geography of Anglo-America	3
2206-0312	Historical Geography of the United States	3
2206-0404	Geo-Ecology	3
2206-0421	Population Problems of the World	3
2206-0424	Geography of New Jersey	3

Recommended Courses for Careers in Foreign Service:

2206-0302	World Resources and Industries	3
2206-0408	Political Geography	3
2206-0409	Urbanization in World Perspective	3
2206-0421	Population Problems of the World	3

Recommended Courses for Graduate Studies in Geography:

1914-0112	Physical Geology	4
2206-0201	Climatology	3
1914-0250	Map Interpretation and Cartography	3
2206-0309	Research Methods in Geography and Urban Studies	3
2206-0310	Quantitative Methods in Geography	3
2206-0313	Urban Geography	3
2206-0408	Political Geography	3

Recommended Courses for Careers in Environmental Studies:

2206-0201	Climatology	3
2206-0252	Hydrology	3
2206-0303	Field Geography	3
2206-0310	Quantitative Methods in Geography	3
2206-0331	Urbanization and Environment	3
2206-0352	Fluvial Geography	3
2206-0401	Fundamentals of Remote Sensing of Environment	3
2206-0404	Geo-Ecology	3
2206-0421	Population Problems of the World	3
2206-0452	Geo-Hydrology	3
2206-0456	Hydro-Climatology	3

COURSE DESCRIPTIONS**2206-0100 Principles of Geography**

The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution; mapping techniques and map interpretation.

3 s.h.

2206-0109 Man and His Environment (Also listed as 2001-0109)

An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view of it, and his changes in it, and future human and environmental projections.

3 s.h.

2206-0112 Physical Geology (Also listed as 1914-0112)

4 s.h.

2206-0200 Cultural Geography

Concepts of cultural geography including culture hearth, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of thought patterns and institutions that unite or separate human groups.

3 s.t.

2206-0201 Climatology

Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge of climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally with a climatic environment.

3 s.

2206-0202 Geography of Anglo-America

Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change: urbanization, industrial growth, transportation, trade patterns, population distribution and modern agriculture.

3 s.

2206-0203 Our Finite Earth: Population and Resources

Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternative ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources.

3 s.h.

2206-0204 Principles of Land Use

Geographical analysis of rural and urban land use patterns in the United States and in the world. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

3 s.h.

2206-0206 Introduction to American Urban Studies

An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban suburban cultural styles, and radical and reform responses to critical urban issues will be explored.

3 s.h.

2206-0209 American Cityscape: Urban Form and Architecture

The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment; cultural values and changing urban forms; and new town design.

3 s.h.

2206-0222 The Geography of Life and Death

Areal distribution of the diseases of man and their relationship to the physical setting. The role of climate, soils, water, nutrition and sanitation in the nurture and spread of disease analyzed in a worldwide context. Diseases examined in the perspective of world, national, regional and local geographic conditions.

3 s.h.

2206-0250 Map Interpretation and Cartography (Also listed as 1014-0250)**2206-0252 Hydrology (Also listed as 1914-0252)**

Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes.

3 s.h.

2206-0300 World Resources and Industries (Also listed as 2204-0300)

Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. World trend in production controls and market allocations.

3 s.h.

2206-0301 Urban Field Studies

Off-campus study of urban conditions in New York-New Jersey Metropolitan area: housing, mass transportation, social pathologies, inner city economics and the role of planning. On-campus discussion sessions alternate with field trips.

3 s.h.

2206-0303 Field Geography

Geographic analysis of local region. Uses of reconnaissance and survey, interviews, maps and ground and aerial photographs in information gathering. Requires individual area study.

3 s.h.

2206-0304 Geography of Europe

The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies.

3 s.h.

2206-0305 Geography of East and Southeast Asia

Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia); the physical and cultural landscape and the problems of economic development.

3 s.h.

2206-0306 Geography of South Asia

Political, cultural and economic study of India, Pakistan and Bangladesh; interrelationship between cultural and physical aspects of the regional landscape.

3 s.h.

2206-0308 Land and Life in Latin America

Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification. 3 s.h.

2206-0309 Research Methods in Geography and Urban Studies

Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material. 3 s.h.

2206-0310 Quantitative Methods in Geography

Treatment of measurements and design in geography; definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation. 3 s.h.

2206-0311 Geography of Manufacturing

The world's manufacturing activities; measurement techniques; analysis of the economic, cultural and geographic bases in industrialization; plant location problems and the special situation of underdeveloped nations. 3 s.h.

Prerequisite: 2206-0302.

2206-0312 Historical Geography of the United States (Also listed as 2205-0312)

The slow pace of settlement of the Eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. 3 s.h.

2206-0313 Urban Geography

The process of urbanization, urban morphology and urban functions. The effect of economic base and urban politics on urban spatial patterns. 3 s.h.

2206-0314 The Location of Economic Activity

Spatial organization of economic activity, past and present, the evolutionary changes due to needs of more complex economic systems. Analyzes physical and human resources, accessibility, routing services, industrial sites and market conditions under varied conditions and economic systems. 3 s.h.

2206-0330 Culture in Transition in India—An Anthropo-geographical Approach

(Also listed as 2202-0330)

India in its geographical and socio-anthropological setting. Focuses on the nature and processes bringing about transition in traditional values and social institutions.

3 s.h.

2206-0331 Urbanization and Environment

Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards. 3 s.h.

2206-0352 Fluvial Geography (Also listed as 1914-0352)

Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams and stream channels; processes, quantitative techniques. 3 s.h.

2206-0401 Fundamentals of Remote Sensing of Environment

Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. 3 s.h.

Prerequisite: 9 semester hours of geography.

2206-0404 Geo-ecology

Spatial relations of the living environment. A systems approach to functional processes characteristics and relationships of the ecological elements, i.e. soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem. 3 s.

2206-0405 Computer Applications in Geography

Theory and practice using a digital computer to solve problems encountered in geography; Fortran IV, computer solution of regressions, and SYMAP (computer mapping). 3 s.h.

2206-0408 Political Geography

Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations. 3 s.h.

2206-0409 Urbanization in World Perspective

Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in third world. 3 s.h.

2206-0411 Problems in Urban Geography

Seminar on the application of geographic concepts and theories to the analysis of urban problems. Field or library research projects by students on specific urban problems. 3 s.h.

2206-0412 Geography of Sub-Saharan Africa

Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. 3 s.h.

2206-0413 Geography of the Middle East

Topical study of area extending from Morocco to Iran: arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes. 3 s.h.

2206-0419 Geography of the Soviet Union

Topical and regional analysis: The demographic-ethnic composition of the Soviet people, the physical resource base, interregional relationships, and the spatial effects of state planning programs. 3 s.h.

2206-0421 Population Problems of the World

Identification, description and analysis of the present-day distributional patterns of the world's people; demographic trends, man-land ratios, mobility, migration and socio-economics and geographic forces affecting world population. Techniques for measurement and analysis. 3 s.h.

2206-0423 Culture and Resource Utilization

Cultural evaluation and utilization of resources: the changing characteristics of physical resources in relation to technological and cultural change, population increases, resource depletion and the accelerated redundancy of man. 3 s.h.

2206-0424 Geography of New Jersey

Demographic and economic organization of the State. Spatial contrasts in population density; suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey. 3 s.h.

2206-0425 Readings in Geography

Students read a number of the more definitive works in modern geography. Examination will be both oral and written. 3 s.h.

2206-0426 Independent Study in Geography

Preparation of a research paper or project to be presented to members of the staff. 3 s.h.

2206-0427 Pro Seminar in Geography

Problem-oriented seminar: specific topics in regional, cultural, physical, economic, political or historical geography. Content changes according to the needs of the instructor.

3 s.h.

2206-0452 Geohydrology (Also listed as 1914-0452)

Ground water study: migration, chemistry and relation to the environment. Darcy's law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes.

3 s.h.

2206-0456 Hydroclimatology (Also listed as 1914-0456)

Climatology emphasizing moisture as one of the fundamental factors in climatic analysis; processes and problems of classification and variability. Examines energy and water balance.

3 s.h.

2206-0461 Seminar in International Economic Geography (Also listed as 2204-0461)

An interdisciplinary seminar focusing the techniques of Economics and Geography on a common theme to achieve a synergistic conclusion.

3 s.h.

Prerequisites: Junior standing and one course in Geography and 2204-0101 and 2204-0102.

2206-0462 People and Cities: Comparative Urban Studies

(Also listed as 2202-0462 and 2205-0462)

Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world.

3 s.h.

Faculty and Administration — 1975 - 76

ZOILA ACEVEDO; AAS, BA, Queens College; MA, New York University

HUBERTA D. ALCARO; BA, Western Washington State College; MS, Purdue University

ANISA AL-KHATAB; BA, MA, EdD, Teachers College, Columbia University

DAVID N. ALLOWAY; AB, Muhlenburg College; MA, Columbia University; PhD, New York University

VICTOR ALPER; AB, Boston University; MA, PhD, New York University

KENNETH AMAN; BA, Maryknoll College; MA, Fordham University; M Th, Maryknoll Seminary; PhD, Yale University

EDWARD J. AMBRY; BS, Newark State College; MA, New York University; PhD, Southern Illinois University

SHAHLA ANAND; BA, DT, Lucknow University (Isabella Thoburn College); MA, Agra University; MA, Columbia University

CLARENCE O. ANDERSON; AB, Colgate University

PHILIP H. ANDERSON; BS, MA, University of Notre Dame; MS, Purdue University

HENRY ARNAU; BA, MA, Columbia University

EDWARD ARONOW; BA, Queens College, CUNY; MA, Fordham University

RAYMOND J. AST; BS, MS, State University of New York

HARVEY L. ASTERITA; BA, St. Peters College; MS, PhD, New York University

ROBERT J. ATKINS; BA, Newark State College; MA, Trenton State College; PhD, North Carolina University

JOSEPH S. ATTANASIO; BA, MA, Montclair State College

IANI Y. AWADALLAH; N Sc, Cairo University; M Sc, Bowling Green State University

CHRISTOPHER BACH; BA, Denison University; MA, University of Pennsylvania; PhD, Case Western Reserve University

IRWIN J. BADIN; BA, Long Island University; PhD, New York University

HARRY BALFE; BA, Trinity College; MA, American University; JD, Catholic University

HOWARD R. BALLWANZ; BS, MS in Ed., Northern Illinois University

CLARA L. BARBEITO; Dr en Filosofia y Letras, Havana University

ELAINE A. BARDEN; BA, Douglass College; MA, Seton Hall University; PhD, Columbia University

RICHARD J. BARKER; BA, University of Rochester; MA, PhD, Duke University

PETER G. BARNET; BS, MS, New York University

JEANNINE A. BARRETT; BA, Tennessee State University; MA, New York University

MARDEN BATE; BM, Manhattan School of Music; MA, Columbia University

ITALO BATTISTA; BA, City University of New York; MA, Rutgers University

RUTH M. BEACH; BA, Cedar Crest College; BLS, McGill University

CATHERINE A. BECKER; BA, MA, Montclair State College; PhD, New York University

JOSEPH F. BECKER; BA, Harvard University; M Ed, University of Delaware; MA, EdD, Columbia University

MURIEL R. BECKER; BA, Hunter College; MA, Montclair State College; MLS, Rutgers University

ROBERT R. BECKWITH; BA, Montclair State College; MA, PhD, Columbia University

JOHN T. BELL; BA, MA, Montclair State College

FREDERICKA BELL-BERTI; BS, PhD, City University of New York

JOSEPH F. BELLA; BFA, Carnegie-Mellon University

LAURENCE BELLAGAMBA; BS, MA, New York University; EdD, Columbia University

DAVID W. BENFIELD; BA, St. John's University; MA, PhD, Brown University

STANLEY BENTON; BS, U.S. Naval Academy; MS, PhD, Tulane University

MURRAY L. BERKOWITZ; BBA, Pace College; MBA, Baruch College

WILLIAM S. BERLIN; BA, Brooklyn College; MA, George Washington University

ANNETTE C. BERMAN; BA, MA, Hunter College

GEORGE BERNSTEIN; BA, Rutgers University; MA, EdD, Teachers College, Columbia University

JOAN D. BERNSTEIN; BA, Queens College; MA, Columbia University

DORIS B. BIANCHI; BS, Syracuse University; MA, Columbia University

RUTH BLANCHE; RN, Monmouth Medical Center; BA, MA, Seton Hall

LAWTON W. BLANTON; BS, MA, University of Florida

CAROLYN E. BOCK; Professor Emeritus of Latin; BS, Middle Tennessee State College; MA, Vanderbilt University; PhD, University of Michigan

HAROLD C. BOHN; Professor Emeritus of English; BA, Hamilton College; MA, Harvard University; EdD, Columbia University

VINCENZO Z. BOLLETINO; BA, City College of New York; MA, PhD, Rutgers University

WAYNE BOND; AB, Alderson-Broaddus College; MA, West Virginia University

BERTRAND P. BOUCHER; BA, MA, Colorado University

ANTHONY J. BOVE; BA, Long Island University; MA, Rutgers University

SUSIE B. BOYCE; BA, Florida State University; MAT, Tulane University; EdD, Rutgers University

JAMES BOYLAN; BA, MA, PhD, Wayne State University

EDWARD A. BOYNO; BA, St. Peter's College; MS, Rutgers University

GEORGE E. BRANTL; BA, MA, PhD, Woodstock College; MA, Fordham University; PhD, Columbia University

ROBERTA C. BRAUSE; BS, MS, Hunter College

MARY E. BREDEMEIER; BS, Madison College; MA, Columbia University; EdD, Rutgers University

CARL E. BREDLAU; BA, MS, PhD, Rutgers University

GEORGE C. BRETHERTON; BS, MA, Columbia University

BUTLER E. BREWTON; BA, Benedict College; MA, Montclair State College

THOMAS W. BRIDGES; BA, New York University; MA, PhD, Columbia University

DANIEL BRONSON; AB, Harvard College; MA, PhD, Columbia University

KENNETH H. BROOK; BA, MA, Hunter College; PhD, University of New York City

DANIEL BROWER; BA, MA, PhD, New York University; Diplomat in Clinical Psychology

CONSTANCE D. BROWN; BS, Hampton Institute; MS, Howard University

MARTIN BROWN; BS, City University of New York; MA, Columbia University; EdD, Rutgers University

ROBERT BROWNING; BS, State University of New York at Oswego; MA, Columbia University

JOSEPH F. BRUNNER; BA, MA, Jersey City State College; EdD, University of Massachusetts

NICHOLAS A. BRUNO; BA, MA, Trenton State College

LEONARD J. BUCHNER; BA, Montclair State College; PhD, Columbia University

MAURICE CAGNON; BA, Providence College; MA, Middlebury College; PhD, University of Pennsylvania

LILLIAN CALCIA; Professor Emeritus of Fine Arts; BS, MA, Columbia University; EdD, New York University

GERARD L. CARACCIOLLO; BA, M, Montclair State College

RUTH CAROL; BA, Brooklyn College; MA, EdD, Teachers College, Columbia University

MAUREEN A. CARR; BA, Marywood College; MFA, Rutgers University; PhD, University of Wisconsin-Madison

THOMAS F. CARROLL; BS, MAT, Tulane University; MA, Rutgers University

MARSHALL G. CASSADY; BA, Otterbein College; MA, PhD, Kent State University

ANNE C. CASTENS; BA, MA, Montclair State College; EdD, Rutgers University

WINCHUNG A. CHAI; BA, Wittenberg University; MS, New York University; PhD, Polytechnic Institute of Brooklyn

M. ANNE CHAPMAN; BFA, Cleveland Institute of Art; MFA, Cranbrook Academy of Art

BARBARA CHASIN; BA, City College of New York; PhD, University of Iowa

CHUANYU E. CHEN; BS, National Taiwan University; MA, Columbia University; PhD, New York University

ROBERT CHERRY; BA, Cornell University; MS, Purdue University; PhD, University of Kansas

JOAN CHEU; BA, National Taiwan University; MA, Teachers College, Columbia University

ARTHUR CHRISTMANN; Professor Emeritus of Music; Dip. and Post-Graduate Dip., Juilliard School of Music; BS, MA, Columbia University; SMD, Union Theological Seminary

CARMEN L. CICERO; BS, Newark State College

ROBERT A. CICERONE; BA, Upsala College; MA, Temple University; PhD, University of Maine

DOROTHY K. CINQUEMANI; BA, University of New Mexico

PAUL C. CLIFFORD; BA, MA, Columbia College, Columbia University

EDEN C. CODER; BA, Juniata College; Ed, University of Pittsburgh; EdD, Boston University

HILIP S. COHEN; BS, MA, PhD, New York University; Degree Supérieur, University of Paris

LAWRENCE H. CONRAD; Professor Emeritus of English; BA, MA, University of Michigan

JOSEPH CONTESSA; BA, City College of New York; MS, Southern Illinois University

BRENDA COOPER; BS, Western Reserve University; Dip., Juilliard Graduate School of Music; MA, Columbia University

FRANCESCO CORDASCO; BA, Columbia College, Columbia University, MA, EdD, New York University

ANDRA I. CORVINO; Metropolitan Opera Ballet School

LARRY D. CRIBBEN; BS, Rio Grande College; MNS, University of Oklahoma; PhD, Ohio University

VIRGINIA A. CROSSMAN; BS, Boston University; MA, Columbia University

FREDERICK D. CROWLEY; BBA, BMA, Iona College

WILLIAM A. CUFF; BA, Adelphi University; MA, George Washington University

JOHN CZERKOWICZ; BFA, MA, University of New Mexico; MFA, Rutgers University

GERT L. DANIELS; BA, MA, University of Texas; EdD, Columbia University

GARY I. DANIELSON; BA, Elizabeth Town College; MS, Florida State University

MYRNA A. DANZIG; BA, Cornell University; MAT, Radcliffe College

MICHAEL S. DAVIDSON; BA, Brown University; MA, M Ed, Columbia University

DAVID R. DAVIS; Professor Emeritus of Mathematics; BA, MA, Indiana University; PhD, University of Chicago

EARL C. DAVIS; Professor Emeritus of Psychology and Guidance; BS, West Chester State Teachers College; MS, University of Pennsylvania, PhD, New York University

LEON DE LEEUW; BA, MA, New York University

WILLIAM C. DELL; BA, MA, New York University

ANDREW DEMETROPOULOS; BA, Rutgers University; MA, MS, New York University

MARY A. DERENGOWSKI-STEIN; BA, College of Our Lady of the Elms; PhD, Columbia University

JEROME G. DeROSA; BS, Panzer College; MA, Montclair State College

SURESH DESAI; BA, MA, LL B, PhD, Gujarat University (India); MA, PhD, University of California at Los Angeles

DOMENICA DESIDERIOSCIOLI; BS, MS, Brooklyn College

THOMAS F. DEVLIN; BA, LaSalle College; MA, PhD, Catholic University of America

WILLIAM P. DIOGUARDI; BS, MS, University of Notre Dame

RALPH A. DePIETRO; BBA, MBA, City University of New York; PhD, New York University

ROBERT F. DORNER; BS, Trenton State College; MA, Montclair State College

ORENE K. DOUMA; BS, Fairleigh Dickinson; BMA, Rutgers State University

RICHARD D. DRAPER; BA, Kalamazoo College; MS, PhD, Purdue University

WALTER R. DURYEA; BA, Rutgers University, MA, University of Connecticut; PhD, Florida State University

MICHAEL DYRENFURTH; B Ed, M Ed, University of Alberta; PhD, Bowling Green State University

ARTHUR W. EARL; BS, Newark State College; MA, Montclair State College; EdD, Columbia University

DENNIS B. EATON; BA, Ball State University; MA, Columbia University

SANDRA M. EISENSTEIN; BA, Brooklyn College; MA, Hunter College

HOUSTON G. ELAM; BS, MS, Pennsylvania State University; PhD, New York University

JOANNE ENGELBERT; BA, Adelphi University; MA, Middlebury College

HENRY O. EVJEN; BA, Wittenberg University; MA, Ohio State University; PhD, Western Reserve University

EMMA FANTONE; BA, MA, Montclair State College

SYLVAN FELDSTEIN; BA, Columbia University; MS, City University of New York

MICHAEL FERNANDEZ; BA, MA, Rutgers University

HENRY M. FERRIS; BA, Syracuse University; MA, New York University

JOHN A. FIGOLA; BS Ed, California State College; MFA, Carnegie-Mellon University

VICTORIA FILAS; BA, MA, Montclair State College

ERNEST B. FINCHER; Professor Emeritus of Political Science; BA, Texas Technological College; MA, Columbia University; PhD, New York University

HOWARD FINK; BA, MA, Queens College

JOSEPH T. FLAGG; BA, MA, Montclair State College; EdD, Rutgers University

WOLFGANG B. FLEISCHMANN; BA, St. John's College; MA, PhD, University of North Carolina at Chapel Hill

EVA M. FLEISCHNER; BA, Radcliffe College; MA, University of Notre Dame; PhD, Marquette University

M. ELAINE FLINT; BA, Western Kentucky University; MS, Southern Illinois University; PhD, Pennsylvania State University

HAROLD D. FLINT; BA, Western Kentucky University; MA, PhD, Southern Illinois University

MARCHA P. FLINT; BA, Hunter College; MA, New York University; PhD, City University of New York

LOIS G. FLOYD; BA, Texas Christian University; MA, University of Texas; PhD, New York University

ROLAND R. FLYNN; BA, Montclair State College; MA, Brown University

DAVID S. FOGG; BA, MA, Montclair State College

PATRICIA A. FORD; BS, Tusculum College; MA, Glassboro State College

DANIEL C. FOSS; BA, PhD, New York University

L. HOWARD FOX; BA, Temple University; MA, Northwestern University; PhD, New York University

RICHARD W. FRANKE; BA, PhD, Harvard University

MARIE M. FRAZEE; BA, MA, Montclair State College; EdD, Columbia University

ALICE F. FREED; BA, MA, University of Pennsylvania

JOSEPH F. FREEMAN; BS, LaSalle College; M Ed, University of Miami; PhD, University of Arizona

M. HERBERT FREEMAN; BS, MA, PhD, New York University

PETER FREUND; BA, University of Maryland; MA, Queens College; PhD, New School for Social Research

MARK J. FRIEDMAN; BA, Colgate University; MS, PhD, Purdue University

NEAL J. FRIEDMAN; BA, University of Michigan; PhD, New York University

SAMUEL R. FRIEDMAN; BA, Harvard University; MA, PhD, University of Michigan

STEPHEN M. FRIEDMAN; BA, College of William and Mary; MA, PhD, University of California

PAUL E. FROELICH; BA, BD, Anderson College; MA, Columbia University; EdD, New York University

EDWIN S. FULCOMER; Professor Emeritus of English; BA, Albright College; MA, EdD, Columbia University

NORMAN H. FULTON; BA, Central Missouri State College; EdM, University of Rochester; Licentiate, PhD, University of Madrid

GROVER C. FURR; BA, McGill University; MA, Princeton University

JOAN G. GAENG; BA, MA, Montclair State College

RALPH GALLEY; BS, McGill University; MBA, New York University; PhD (ABD), New York University

ANDREW R. GALLOPO; BA, Rutgers University; PhD, Brown University

MARGARITA GARCIA; BS, MA, PhD, Columbia University

EVELYN P. GARFIELD; BA, University of Michigan; MA, Washington University (Mo.); PhD, Rutgers University

ROBERT GARFUNKEL; BA, Rutgers University; MA, Montclair State College

VICTOR C. GARIBALDI; BS, City University of New York; MA, New York University; MS, Yeshiva University

VLADIMIR L. GARIK; BS, MS, Polytechnic Institute of Brooklyn; PhD, University of Pittsburgh; PhD, University of Connecticut

IRWIN H. GAWLEY, Jr.; BA, MA, Montclair State College; EdD, Columbia University

ELIZABETH M. GEISS; BFA, Syracuse University; MA, Columbia University

ABRAHAM GELFOND; BS, Rutgers University; MA, PhD, New York University

OLIVER S. GELSTON; BS, Panzer College; MA, Montclair State College

ELSIE O. GIBSON; BA, Syracuse University; MA, Radcliffe College; MLS, Rutgers University

JOHN L. GIRT; BFA, MFA, Carnegie-Mellon University

MARGARITA GLANTZ-SCHNEIDER; BA, MA, University of Mexico; Doctorat de l'Universite de Paris

ROBERT M. GLICK; BA, PhD, University of Chicago; MA, Middlebury College

NANCY GOLDRING; BA, Smith College; MA, New York University

LARRY S. GOLDSTEIN; BBA, City College of New York; MA, Columbia University

OPHELIA D. GONA; BS, Johnson C. Smith University; MS, Yeshiva University; MA, City College of New York; PhD, City University of New York

HARRISON GOODALL; BS, Trenton State College; MA, Ball State University

ROBERT GOODKIN; BA, Allegheny College; MS, PhD, Florida State University

LAURA K. GORDON; BA, University of Michigan; MA, PhD, State University of New York at Stony Brook

ROBERT G. GORDON; BA, Colgate University; MA, Columbia University

ALFRED H. GORMAN; BS, MA, New York University; EdD, Columbia University

CARL GOTTSCHALL; BA, City University of New York; JD, New York University; MS, Yeshiva University

DAVID GRAF; BE, University of Wisconsin; MS, University of North Dakota

JOSEPH A. GRECO; BBA, St. John's University; MBA, PhD, New York University; CPA, State of New York

HOWARD GREENBLATT; BA, Queens College; MA, Hofstra University

GERTRUDE T. GREENBERG; BA, Brooklyn College; MLS, Rutgers University

MARTIN T. GREENWALD; BS, BA, EdD, New York University; MS, City College of New York

DONALD B. GREGG, BA, MA, Montclair State College; EdD, Lehigh University

RICHARD A. GREY; BS, Winston-Salem Teachers College; MA, Montclair State College; EdD, Fordham University

MICHAEL F. GRIECO; BA, Montclair State College; MA, Columbia University

GEORGE H. GUGEL; BA, Hartwick College; MS, State University of New York at Oneonta

LOIS J. GUTHRIE; BS, West Virginia University; MS, Purdue University

HOWARD L. HAAS; Professor Emeritus of Business Studies; BS, Trenton State College; MS, Rutgers University

RONALD F. HAAS; BS, MA, Seton Hall University; EdD, Rutgers University

ROSS HABER; BA, Pace College; MA, Teachers College, Columbia University

CHARLES E. HADLEY; Professor Emeritus of Biology; BA, Bates College; MA, Trinity College; MA, PhD, Harvard University

KATHERINE B. HALL; BS, MS, University of Tennessee; PhD, Pennsylvania State University

BLANCHE W. HALLER; BA, Brooklyn College; BS in LS, Columbia University

IMAD E. HAMDEN; BS, MAT, Fairleigh Dickinson University

LAWRENCE B. HAMEL; BA, PhD, St. John's University; MA, Boston University

CHARLES L. HAMILTON; BA, Lehigh University; MA, Dartmouth College; PhD, Virginia Polytechnic Institute

FRANK B. HANSON; BS, University of Maine; MA, University of North Carolina; PhD, Yale University

ELAINE HARRINGTON; BA, MA, Montclair State College

SELMA S. HARRIS; BBA, Woodbury College; BA, Mexico City College; MLS, Rutgers University

HERBERT J. HAUER; BA, PhD, New York University; MA, Columbia University

EDWARD J. HAUPT; BAE, University of Minnesota; PhD, New York University

RUSSELL HAYTON; B Mus, Chicago Conservatory; B Mus in Ed, Roosevelt College; MSM, Union Theological Seminary

CLAIRE HEALEY; BS, Boston University; MA, PhD, Columbia University

JOSEPH C. HECHT; BS, Long Island University; MA, EdD, New York University

SAMUEL M. HEFT; BS, Rensselaer Polytechnic Institute; MS, PhD, University of North Carolina at Chapel Hill

WALTER L. HEILBRONNER; BA, MA PhD, University of Michigan

GEORGE D. HEISS; BA, Pennsylvania State University; Ed. M., University of Maryland; EdD, Rutgers University

WARREN E. HEISS; BS, Pennsylvania State University; MA, Jersey City State College; EdD, Yeshiva University

MARY HELLMAN; BA, Brooklyn College; MLS, Rutgers University

THERESE M. HERMAN; BA, New York University; PhD, New School for Social Research

SOPHIA G. HINSHALWOOD; BA, Central College; MA, University of Georgia

TING HO; BA, Bucknell University; MA, Kent State University; PhD, University of Rochester

ALFRED D. HOADLEY; BS, University of Delaware; MS, PhD, University of Maryland

RICHARD H. HODSON; BS, Trenton State College; MA, Montclair State College

HARRY H. HOITSMA; BS, MA, EdD, New York University

CHRISTINE D. HOOVER; BA, MS, PhD, Fordham University

MOSEH-BEN HORIN; BA, MA, University of Jerusalem

GEORGE A. HORN; BS, Albright College; MA, PhD, New York University

GILBERT O. HOURTOULE; BA, Montclair State College; MA, Stanford University; PhD, Pennsylvania State University

CLYDE M. HUBER; Dean Emeritus; BA, Pennsylvania State University; MA, PhD, University of Illinois

LEON HYMAN; BA, Queens College; MS, Juilliard School of Music

JOHN L. ISIDOR; BS, Stonehill College; PhD, University of North Carolina

OLUKUNLE IYANDA; BS, University of Lagos; MBA, New York University

BARRY D. JACOBS; BA, DePauw University; MA, PhD, Harvard University

RITA JACOBS; BA, Queens College; MA, University of Pennsylvania

EDWARD W. JOHNSON; BA, Rutgers University; MA, New School for Social Research; PhD, New York University

STEPHEN M. JOHNSON; BA, Spring Hill College; MA, Marquette University; M Phil, PhD, Yale University

PAUL W. JOHNSTON; BA, Columbia University; MA, New York University; MS, Southern Connecticut State College

PERCY E. JOHNSTON; BA, Howard University; MA, Montclair State College

ABRAHAM S. KAMPF; BS, New York University; MA, PhD, New School for Social Research

MARC L. KASNER; BS, California State University at Long Beach; PhD, Purdue University

JAMES P. KEENEN, III; BA, MA, Montclair State College; EdD, Columbia University

BERNARD KAHN; BA, Brooklyn College; MA, Columbia University

KENNETH KALMANSON; BS, Brooklyn College; PhD, City University of New York

ROSALYN T. KANE; BA, Hunter College; MS, New York University

EVA KANTOR; BA, Barnard College; PhD, Boston University

HARVEY M. KAPLAN; BS, JD, New York University; CPA, State of New York, State of Colorado

ROY KATO; BS, Colorado School of Mines; MA, PhD, New School for Social Research

FRANK S. KELLAND; B Ed, Keene State College; MA, Clark University

ELIZABETH P. KELLEY; BS, Maryville College; MA, New York University; Professional Diploma, Columbia University

DAVID H. KELLY; BA, Catholic University of America; MA, PhD, University of Pennsylvania

REGINE M. KELLY; BA, MA, Trenton State College

PATRICIA KENSCHAFT; AB, Swarthmore College; MA, PhD, University of Pennsylvania

LAWRENCE B. KENYON; BA, DePauw University; MA, New York University; EdD, University of Colorado

GEORGE G. KING; AA, Monmouth College; BA, MA, Montclair State College; EdD, Rutgers University

LEE C. KHANNA; BA, Denison University; MA, PhD, Columbia University

BYONG-SUH KIM; BA, Florida Presbyterian College; MTh, Princeton Theological Seminary; PhD, Emory University

JOHN J. KIRK; BS, Boston University; MA, PhD, University of Michigan

GILBERT KLAJMAN; BA, Brooklyn College; MA, Brandeis University

ROBERT KLEIN; MA, University of Chicago

HELENE KLIBBE; License en Lettres, Sorbonne Universite de Paris; PhD, Syracuse University

MATHILDA S. KNECHT; BA, Montclair State College; MA, Columbia University

LEAH K. KODITSCHEK; BA, Hunter College; MA, Oberlin College; PhD, Rutgers University

WILLIAM G. KOELLNER; BA, MA, Montclair State College

STEPHEN J. KOEPP; BA, Messiah College; MA, PhD, North Texas State University

MICHAEL S. KOGAN; BA, ABD, Syracuse University

MARK A. KOPPEL; BA, Columbia University; MA, PhD, Northwestern University

WALTER E. KOPS; BA, MA, Montclair State College

LUDWIK KOWALSKI; BS, MS, Polytechnic Institute of Warsaw; PhD, University of Paris

STEPHEN W. KOWALSKI; BS, Fairleigh Dickinson University; MA, PhD, New York University

DORIS R. KRAEMER; BA, Rutgers University; MA, Columbia University; PhD, Yeshiva University

SIDNEY J. KRONISH; BS, MA, New York University; PhD, New School of Social Research

LEONARD B. KRUK; BS, Bloomsburg State College; M Ed, EdD, Temple University

JANE KRUMACHER; BS, Rutgers University; MA, EdD, New York University

S. MARIE KUHNEN; BA, Montclair State College; MA, Columbia University; PhD, New York University

ANTHONY R. KUOLT; BA, Hamilton College; M Ed, Rutgers University

DANIEL W. KUNZ; BA, Montclair State College; MA, Newark State College; EdD, Rutgers University

EDITH KURZWEIL; BA, Queens College; MA, PhD, New School for Social Research

RICHARD A. KYLE; BA, Paterson State College; MA, Columbia University

MARCOANTONIA LACATENA; BS, Fairleigh Dickinson University; MA, Montclair State College

MARGARET M. LAHEY; BS, State University of New York at Geneseo; MA, Ohio State University; EdD, Columbia University

JEROME L. LANDSMAN; BM, University of Rochester; MM, DMA, University of Southern California

EILEEN LANG; BA, College of St. Elizabeth; MA, New York University

GERHARD LANG; BS, MA, City University of New York; PhD, Columbia University

NORMAN E. LANGE; BA, Colgate University; MA, Cornell University; EdD, Columbia University

RALPH W. LARKIN; BA, PhD, University of California; MA, San Fernando Valley State College

MARY T. LARSON; BS, M Ed, Pennsylvania State University

PATRICIA LAY; BS, Pratt Institute; MFA, Rochester Institute of Technology

AUDREY J. LEEF; BA, Montclair State College; MS, Stevens Institute of Technology

GILBERT LEIGHT; BS Ed, City College of New York; MA, PhD, Columbia University

MOIRA K. LEMAY; BS, Queens College; MS, PhD, Pennsylvania State University

EDITH G. LENEL; MS, Columbia University; MA, DrPhil, University of Koenigsberg

LINDA G. LEVINE; BA, New York University; MA, PhD, Harvard University

NAOMI C. LIEBLER; BA, City College of New York; MA, State University of New York at Stony Brook

CARL D. LINDBLOM; BM, MA, University of Rochester; PhD, Rutgers University

MICHAEL LINDENMAN; BA, Trenton State College; MA, Columbia University

MATTHEW LIPMAN; BS, PhD, Columbia University

JAY LIVINGSTON; BA, Brandeis University; PhD, Harvard University

PAUL J. LOCHER; BS Ed, Kutztown State College; MS, PhD, Temple University

CHARLOTTE R. LOCKWOOD; Associate Professor Emeritus of Fine Arts; BA, William and Mary College; BS, Newark State College; MA, Columbia University

MICHAEL P. LONDON; BA Ed, MS, New York University

LUCINDA LONG; BA, Mary Washington College; MA, Johns Hopkins University

ANTHONY L. LOVASCO; BA, Williams College; MA, University of Connecticut

STEVEN K. LUBIN; AB, University of Connecticut; MS, West Virginia University

LEONARD K. LUCENKO; BA, Temple University; MA, New York University; PhD, University of Utah

JENNIE M. LYNCH; AAS, Rockland Community College; BA, Lehman College; MA, Columbia University

RICHARD A. LYNGE; BA, Hamilton College; PhD, Iowa State University

JARK L. LYNDRUP; BS, Trinity College; PhD, Northwestern University

TERESA F. MACALUSO; BA, St. Bonaventure University; MA, Seton Hall University; PhD, New York University

SCOTT MacCONNELL; BA, Amherst College; MA, Columbia University

WILLIAM H. MAK; BS, PhD, Rensselaer Polytechnic Institute

JAN M. MALETSKY; BA, MA, Montclair State College; PhD, New York University

CHARLES H. MARTENS; BSc in Ed, Massachusetts College of Art; MA, EdD, New York University

GEORGE T. MARTIN; BA, Vanderbilt University; MA, PhD, University of Chicago

CLIFFORD MASHEB; BS, MBA, New York University

ZABETH MAYSILLES; BA, West Virginia University; MA, Hunter College

KUREEN A. MAZZARESE; BS, MS, Brooklyn College

SEMARIE McCAULEY; BA, Trenton State College; MA, Seton Hall University

SUE E. MCCOLLUM; BS, MA, PhD, Syracuse University

JON MICHAEL McCORMICK; BS, Portland State University; MS, PhD, Oregon State University

ROBERT J. McCORMICK; BA, St. John's University; MA, Queens College

WILLIAM C. McCREATH; BFA, Cranbrook Academy of Art

DENNIS K. McDONALD; BA, University of Northern Iowa; MA, New York University; PhD, Carnegie-Mellon University

CLYDE W. McELROY; BA, MA, Baylor University; EdD, University of Virginia

MORRIS G. McGEE; BA Montclair State College; MA, EdD, New York University

MEREDITH B. McGuire; BA, Eckerd College; MA, PhD, New School for Social Research

BEVERLY Q. McHUGH; BA, Georgian Court College; MA, Montclair State College

GEORGE T. MENAKE; BA, St. Peter's College; MA, St. John's University; PhD, New York University

DAVID MERANZE; BA, Harvard University; MFA, DFA, Yale University

FRANK P. MERLO; BA, MA, Montclair State College; EdD, Rutgers University

JAMES K. MERRITT; BA, Trenton State College; MA, Glassboro State College

NICHOLAS M. MICHELLI; BA, Montclair State College; MA, New York University; EdD, Columbia University

ANNE Z. MICKELSON; BS, New York University; MA, PhD, Rutgers University

THOMAS MILLARD; AB, Rutgers University; MA, MSW, Third Year Certificate, Columbia University; MA, New York University

ALYCE SANDS MILLER; BA, Hunter College; MA, PhD, Pennsylvania State University

JULIUS MILLER; BA, University of New Mexico; PhD, Rutgers University

ROBERT MILLER; BA, Wayne State University; MA, PhD, University of Michigan

EDWIN MILLS; BA, Bob Jones University; M Ed, Florida Atlantic University

NATALIA MILSZYN; MA, Rutgers University; MLS, Pratt Institute

BYUNG K. MIN; BS, Seoul National University; MBA, New York State University

ROSE S. MINC; BA, Douglass College; MA, Rutgers University

BEN MINOR; BS, MEE, City College of New York; PE, New Jersey; Industrial Engineering, Columbia University

DONALD M. MINTZ; BA, PhD, Cornell University; MFA, Princeton University

PHYLLIS L. MIRCHIN; BS, William Paterson College; MBA, New York University

ELLEN H. MOHAMMED; BS, University of North Carolina; MA, Columbia University

KARL P. MOLL; AB, Westminster College; MA, Pennsylvania State University

JOHN V. MOORE; AB, Harvard College; MA, PhD, Princeton University

JOSEPH T. MOORE; BS, EdD, Rutgers University; MA, Montclair State College

WARD MOORE; BA, Illinois Wesleyan University; MM, University of Michigan; MA, EdD, Columbia University

LOIS A. MORE; BA, MA, Montclair State College; EdD, Columbia University

VIVIAN D. MORRIS; BS, MS, Alabama A&M University; PhD, George Peabody College

JOHN R. MOYER; BA, M Ed, University of Maryland; EdD, Columbia University

MARGARET R. MUKHERJEE; BS, Cornell University; MA, Michigan State University

RONALD R. MURPHY; BS, EdM, Oregon State University; EdD, Rutgers University

MWANGI WA-GITHUMO; BA, Wayne State University; MSc, City University of New York; PhD, New York University

LOUIS C. NANASSY; BS, Indiana University of Pennsylvania; MA, Ohio State University; EdD, Columbia University

JAMES F. NASH; BA, LaSalle College; MA, PhD, University of Virginia

PATRICIA A. NAVÉ; BS, Boston University; MA, Columbia University

GIDEON NETTLER; BS, Rensselaer Polytechnic Institute; MS, Polytechnic Institute of Boston

DIKA NEWLIN; BA, Michigan State University; MA, University of California at Los Angeles; PhD, Columbia University

NGARI NGUNJIRI; BS, Springfield College; MA, St. John's University

CATHERINE N. NORRIS; BS, MS, University of Tennessee

J. KENNETH OLENIK; BSS, John Carroll University; MA, PhD, Cornell University; MA, Seton Hall University

UGWUANYA G. OLERU; BA, Holy Cross College; MS, University of Rhode Island; DrPH, Columbia University

GEORGE A. OLSEN; BS, Newark State College; MA, Montclair State College; EdD, New York University

DONNA J. OLSON; BS, University of Idaho; MS, Washington State University

MARIO F. ONEGLIA; BM, Manhattan School of Music; MA, Professional Diploma, EdD, Columbia University

ALAN J. OPPERHEIM; BS, MS, Polytechnical Institute of Brooklyn; ADB, New York University

SHARON OSGOOD; BA, DePauw University; MA, New School for Social Research

LORRAINE P. OWEN; BS, Florida State University

WENDY G. OXMAN; BA, Brandeis University; MA, Yeshiva University; EdD, Fordham University

ANNA C. PAI; BA, Sweet Briar College; MA, Bryn Mawr College; PhD, Albert Einstein College of Medicine

NANCY S. PAISLEY; BA, University of Minnesota; MA, PhD, University of Illinois

WILLIAM R. PARZYNSKI; BS, MS, Stevens Institute of Technology

CATHERINE J. PASKERT; BS, Pace University; MA, Columbia University; EdD, University of Utah

PETER PASTOR; BS, City College of New York; MA, PhD, New York University

CLARENCE W. PATE; BA, University of California; MA, San Jose State College

J. RAYMOND PAUL; BA, Princeton University; MA, Columbia University

GEORGE B. PEARSON; BS, Pennsylvania State College; M Ed, Springfield College; EdD, University of Oregon

EARL K. PECKMAN; BA, Wesleyan University; MA, EdD, Columbia University

JOSEPH D. PENO; BA, MA, University of Texas; PhD, Michigan State University

JAMES P. PETTEGROVE; BA, Bowdoin College; BA, Oxford University; MA, Harvard University

GEORGE R. PETTY, JR.; BA, Princeton University; MA, PhD, New York University

ROBERT A. PINES; BS, Monmouth College; MS, Rutgers University; EdD, University of Miami

GEORGE F. PLACEK; BA, Montclair State College; MA, Columbia University

ROBERT PODHURST; BA, Yeshiva University; MA, New School for Social Research

PAOLO POSSIEDI; Dottore lettere, University of Padua (Italy)

ROSALIE R. PRATT; BM, Manhattanville College; MM, Pius XII School of Fine Arts

SAMUEL PRATT; BS, University of Connecticut; MA, Michigan State University; PhD, University of Michigan

MURRAY PRESENT; BM, Michigan State University; Diploma, Juilliard School

THEODORE PRICE; BA, Kenyon College; MA, Columbia University

DOROTHY M. PRIESING; BS, MA, Columbia University; Diploma, Juilliard School

ARA F. PRIETO; BA, BS, Instituto de la Habana; Doctor en Filosofia Letras, Universidad de la Habana

MURRAY PROSKY; BA, New York University; MA, PhD, University of Wisconsin

ANIEL J. PROSSER; BA, University of the Redlands; PhD, Northwestern University

MICHAEL A. PUGLISI; BA, Niagara University; MBA, New York University

ANDREW W. QUINN; VS, MA, Central Connecticut State College

BERTHA B. QUINTANA; BA, Upsala College; MA, EdD, New York University

SANFORD RADNER; BA, Duke University; MA, EdD, Columbia University

ANA M. RAMBALDO; BA, Southern Methodist University; MA, PhD, New York University

ROBERT C. RAMSDELL; BA, Lehigh University; MS, Rutgers University; MA, Princeton University

DAVID RANDOLPH; BS, College of the City of New York; MA, Columbia University

ALAN F. RAPPAPORT; BA, Seton Hall University; MA, University of Connecticut; PhD, Pennsylvania State University

M. LAWRENCE RAWLINGS; BS, Brigham Young University; MS, PhD, Pennsylvania State University

JOHN G. REDD; BS, Ohio State University; MA, PhD, University of Michigan

GLEN E. REHORN; BS, MS, EdD, Oklahoma State University

MARGARET REILLY-PETRONE; BA, Immaculate Heart College; MA, PhD, Fordham University

MICHELE L. REILLY; BA, MA, Montclair State College

TIMOTHY T. RENNER; BA, Yale University; MA, University of Michigan; M Ed, Rutgers University

A. W. RENTSCH; BA, Adrian College; MA, Montclair State College; PhD, University of Michigan

MORTON D. RICH; BA, Cornell University; M Ed, Rutgers University

THOMAS H. RICHARDSON; Distinguished Professor of Philosophy; BS, State University of New York; MA, EdD, Columbia University; London School of Economics; Cambridge University; Gutenberg University; LLD, Bloomfield College

HELEN M. ROBERTS; BS, City College of New York; PhD, John Hopkins University

JOHN P. ROBERTS; BA, Union College; MA, Columbia University

LINDA J. ROBERTS; BA, University of Bridgeport; MA, Columbia University

DAVID K. ROBERTSON; BA, University of Michigan; MA, PhD, Rutgers University

JEROME ROCKWOOD; BA, Brooklyn College; MA, Western Reserve University; PhD, New York University

LOUIS J. M. ROEDERER; Bachelier et Licencie en Droit, Universite de Lyon; PhD, New York University

HELENE S. ROSS; BFA, BS in Ed, MFA, Temple University

ARTHUR J. ROSSER; BS, Wilmington College; MA, Kent State University; PhD, Ohio State University

ALBERT D. ROSSETTI; BS, Trenton State College; MA, Montclair State College; EdD, Rutgers University

GEORGE S. ROTTER; BA, Brooklyn College; PhD, New York University

HELEN E. ROYER; BA, MA, Bucknell University; PhD, Pennsylvania State College

MARTIN RUDNICK; BS, EdM, Temple University; EdD, Indiana University

DOROTHY R. RUDY; BA, Queens College; MA, Columbia University

CHARITY E. RUNDEN; BA, MA, Ball State University; MS, PH, University of North Carolina; PhD, Indiana University

DORIS H. RUSLINK; VS, State University of New York at Buffalo; MA, PhD, New York University

LILLIAN RUSSO; BS Ed, EdM, Temple University; EdD, Teachers College, Columbia University

GROSVENOR RUST; AB, Wheaton College; AM, PhD, University of Chicago

JACK SACHER; BA, Middlebury College; MA, EdD, Columbia University

JANET SAHRAIE; BA, Barnard College; MA, EdD, Columbia University

ABBIE F. SALNY; BA, New York University; MA, Montclair State College; EdD, Rutgers University

GEORGE E. SALT; BA, North Central College; MA, Northwestern University

ANDRE SAN AUGUSTINE; BBA, University of the East, Manila; MS, University of Rhode Island; PhD, Pennsylvania State University

PATRICIA D. SANDERS; BA, Marywood College; MLS, Rutgers University

MAY D. SANDFORD; BS, Cornell University; MA, EdD, Columbia University

JORGE SANTOS; BA, York College; MA, City University of New York

MARIE S. SAWITS; BA, MA, Hunter College; MS, PhD, Columbia University

ARNOLD SCHANCUPP; BBA, City College; JD, Brooklyn Law School; LLM, New York University

MARIE E. SCHANTZ; BS, Jersey City State College; MA, Montclair State College

FRANCIS SCHER; BA, Smith College; MA, Columbia University

MARION SCHIEBEL; BA, Brooklyn College; MA, Columbia University

JERRY T. SCHIERLOH; BS, West Michigan University; MS, Purdue University

ERNESTINE SCHLANT; BA, MA, PhD, Emory University

JOAN SCHLEEDE; BS, MA, EdD, New York University

BETTY L. SCHLOSSMAN; BA, Wellesley College; MA, Columbia University

NANETTE SCHNAIBLE; BS, Southern Illinois University; MS, SUNY at Brockport

KLAUS A. SCHNITZER; BA, City University of New York; MFA, Ohio University

HAROLD M. SCHOLL; BBA, MBA, City University of New York; EdD, Columbia University

TERRY SCHON; BS, Bowling Green State University; MA, Hunter College; PhD, Syracuse University

LUCILLE S. SCHORR; BA, Mount Holyoke College; MS, Fordham University

FRED C. SCHUMM; BS, Newark State College; MA, Montclair State College; EdD, New York University

JEROLD S. SCHWARTZ; BA, University of Pennsylvania; MA, PhD, Yeshiva University

- JOEL SCHWARTZ; BA, MA, PhD, University of Chicago
- LAWRENCE SCHWARTZ; BA, Newark College of Engineering; MA, Stanford University
- DOUGLAS M. SCHWEIGEL; BA, Lake Forest College; MA, George Washington University; PhD, University of Minnesota
- MILTON S. SEEGMILLER; BA, Brooklyn College; MA, New York University; PhD, New York University
- ANN G. SEIDLER; BA, Smith College; MA, PhD, New York University
- JEROME M. SEIDMAN; BS, MS, Rutgers University; PhD, New York University
- MADELINE A. SERGENT; Baccalaureat, Universite de Poitiers; Diploma de la Escuela Central de Idiomas; MA, University of Colorado
- JOHN SEYMOUR; BS, William Paterson; MA, PhD, New York University
- NICHOLAS A. SFOUGGOTAKIS; BS, Brooklyn College; MBA, New York University
- WILLIAM SHADEL; BA, Montclair State College; M Mus, Manhattan School of Music
- REZA B. SHAHROKH; BS, MS, PhD, Southern Illinois University
- DOROTHY L. SHAPIRO; BS, Wagner College; MBA, Pace University; JD, Brooklyn Law School
- ANN M. SHARP; BA, College of New Rochelle; MA, Catholic University of America; EdD, University of Massachusetts
- MARCIA J. SHERRARD; BSN, Duke University; MDH, Tulane University
- JUDITH A. SHILLCOCK; BA, MA, PhD, Rutgers University
- B. ERNEST SHORE; BA, McMaster University; MA, Harvard University
- PAUL P. SHUBECK; BS, Seton Hall University; MA, Montclair State College; PhD, Rutgers University
- EDWARD SHULMAN; BA, Western Michigan University; MS, University of Minnesota; PhD, University of Iowa
- GEORGE SICHUK; BA, Drew University; PhD, Rutgers University
- MARION SIEGELTUCH; BA, George Washington University; MLS, Rutgers University
- ROLAND J. SIITER; BA, Northwestern University; MA, Xavier University; PhD, Purdue University
- JONATHAN SILVER; BS, MA, Columbia University
- MIRIAM G. SILVER; BA, Douglass College; MS, Bank Street College of Education
- ROGER SIMMONS; BS, Dudley College, England; MS, University of Wyoming; PhS, University of Iowa
- ALLEN J. SIMONSON; JD, BA, Rutgers University; MBA, Seton Hall University
- HARBANS SINGH; BA, Government College (Rupar, India); MA, Punjab University (India); MA, PhD, Rutgers University
- MICHAEL G. SIPORIN; BA, MFA, Southern Illinois University
- SERPIL SISIK-LEVEEN; BA, University of Ankara (Turkey); MA, Southern Illinois University; PhD, New York University
- DALE SKOLNIK; BS, Queens College; MS, New York University
- KEITH D. SLOCUM; BA, Knox College; MA, PhD, University of Pennsylvania
- LESLIE SMITH; MA, Montclair State College
- MAX A. SOBEL; BA, Montclair State College; MA, PhD, Columbia University
- DONALD E. SOBOLIK; BA, MA, University of Nebraska
- ROBERT SOFFER; BA, New York University; MA, Columbia University; MA, Teachers College, Columbia University
- CAROL SOTNICK; BS, Fairleigh Dickinson University
- SHARON SPENCER; BA, MA, PhD, New York University
- VENKATARAMAN SRIKANTH; BS, St. Xavier College; MBA, Indian Institute of Management

ENID M. STANDRING; BA, MA, Manchester University (England); Licence-en-Lettres, Universite de Besancon (France); PhD, New York University

WILLIAM L. STANTON; BA, Stanford University; MA, Princeton University

CHRISTOPHER STASHEFF; BA, MA, University of Michigan; PhD, University of Nebraska

ABRAHAM STEIN; BS, MS, City College of New York; MBA, New York University

ROLF STERNBERG; BA, Ursinus College; MA, Clark University; PhD, Syracuse University

PHILIP STETSON; BA, MA, University of Chicago

EMILY A. STEVENS; BM, Florida State University; MME, University of Kansas

JOHN G. STEVENS; BS, Indiana University; PhD, New York University

RUTH C. STEWART; BA; MA, EdD, Rutgers University; MA, Columbia University

JAMES H. STODDARD; BS, PhD, University of Michigan

DONALD R. STOLL; BA, Valparaiso University; MFA, University of Texas

DIANA J. STONE; BA, Adelphi College; MA, Montclair State College

CAROLE B. STONE; BA, New York University; MA, Rutgers University

ROBERT F. STREETMAN; AA, Holmes Junior College; BA, Millsaps College; BD, Duke Divinity School; STM, Pacific School of Religion

DAVID M. STUEHLER; BA, Rutgers University; MA, PhD, New York University

IRA R. SUGERMAN; BA, New York University; MS, PhD, Columbia University

TIMOTHY F. SULLIVAN; BS, Cortland College; MS, Ithaca College

JANET SUSI; BA, Douglass College; MA, Middlebury College; MA, Columbia University

LILLIAN SZLARCZYK; BA, Hunter College; MA, Middlebury College; PhD, University of Pennsylvania

MARILYN TAIGIA; BS, Panzer College; MA, Columbia University

EIDOLA J. TALLEY; B Journ, University of Texas; MA, University of Rhode Island; PhD, Boston University

VIJAY TANEJA; BS, B Ed, Delhi University, (India); MA, PhD, Iowa State University

ROBERT W. TAYLOR; BA, Washington University; MA, PhD, St. Louis University

TETE H. TETENS; BS, Union College; MA, Columbia University

RICHARD W. Tews; BS, LaCrosse State Teachers College; MA, Iowa State University; PhD, New York University

JOHN V. THIRUVATHUKAL; BS, St. Louis University; MS, Michigan State University; PhD, Oregon State University

MAURIE TORHAN; BA, Queens College

JOSEPH TOTH; BS, University of Akron; M Ed, Kent State University; EdD, Colorado State College

DAVID J. TOWNSEND; BA, University of Michigan; MA, PhD, Wayne State University

HOWARD TRAVIS; BA, MA, University of Michigan

JOHN H. TURNER; BS, Fairleigh Dickinson University; MBA, PhD, City College of New York

ANITA E. UHIA; BA, Fairleigh Dickinson University; MA, Montclair State College

ARLENE UNGER; BA, New York University; MA, Montclair State College

RHODA K. UNGER; BS, Brooklyn College; MA, PhD, Harvard University

CHARLES M. B. UTETE; BS, University of London; MA, Tufts University; M PhD, Carleton University

PALMINA A. UZZOLINO; BS, New York University; MA, Catholic University

ALBA R. VALDOVINOS; BA, Montclair State College; MA, Rutgers University

RAYMOND C. VAN BENSCHOTEN; B EdM, EdD, Rutgers University

JOSEPH L. VENTURINI; BA, Glassboro State College; M Ed, Rutgers University

- RALPH A. VERNACCHIA; BA, San Diego State College; MA, Columbia University
- PATRICK R. VINCENT; BS, London School of Economics; MA, McMaster University
- ALEXANDER VOLOTTA; BS, Syracuse University; MBA, University of Toledo; PhD, Pennsylvania State University
- HAZEL M. WACKER; BPE, Panzer College; MA, Montclair State College; EdD, New York University
- VINCENT J. WALENCIK; BS, MA, Montclair State College
- CONSTANCE WALLER; BS, Indiana University; MA, EdD, Columbia University
- JAMES E. WALSH, Jr.; BEE, MA, New York University
- JOYCE J. WALSTEDT; AB, Stanford University; MSW, University of California; MS, PhD, Rutgers University
- ELMER E. WATERS; BS, Columbia University; MBA, Rutgers University
- EMILY T. WATERS; BA, MA, Montclair State College
- KRIAN B. WATKINS; BFA, Yale University; MFA, Rutgers University
- MCELL I. WATSON; BA, Delaware State College; MA, Howard University; EdD, University of Pennsylvania; LLD, Delaware State College
- ICHARD E. WEBER; BA, Rutgers University
- DAVID E. WIESCHADLE; BA, EdM, EdD, Rutgers University
- EONA WEITZ; BS, Indiana University of Pennsylvania; M Ed, Pennsylvania State College
- OBERT H. WERNER; BS, University of Pennsylvania; MBS, Seton Hall University
- ARY L. WEST; BA, MS, Cornell University; PhD, Columbia University
- ALTER R. WESTPHAL; BS, State University of New York at Buffalo; MA, Columbia University; MA, University of Illinois
- JENJAMIN F. WILKES; BA, Cornell University; BS, MS, Juilliard School of Music; A, New York University; EdD, Columbia University
- KAY S. WILKINS; BA, PhD, University of Southampton (England)
- DANIEL E. WILLIAMS; BA, Seton Hall University; MS, PhD, St. John's University
- ROBERT B. WILLIAMS; BA, Occidental College; EdM, EdD, Rutgers University
- THOMAS E. WILLIAMSON, JR.; BS, University of Maryland; PhD, Rutgers University
- THOMAS L. WILSON; BS, College of Wooster; MS, University of Washington; PhD, University of Chicago
- THOMAS WILT; BM, MM, University of Rochester
- ZDENKA WINTERS; MLS, Charles University of Prague
- BERTON J. WISER; BA, University of Rochester; MS, Purdue University
- W. W. WOLFE; BA, Davidson College; PhD, Yale University
- KENNETH C. WOLFF; BA, Montclair State College; MA, Pennsylvania State University
- GERALD WOOLF; BS, City College of New York; MS, University of Pittsburgh; PhD, New York University
- PETER F. WORMS; BBA, MS, City College of New York; EdD, Rutgers University
- SHARON L. WYATT; BA, MA, University of Mexico; PhD, University of Florida
- SUE P. YANG; BS, University of Maryland; MS, Cornell University
- ALBERT ZABADY; BA, MA, Montclair State College; MS, University of New Hampshire
- JOHN A. ZAHNER; BA, Toledo University; MA, PhD, University of Arizona
- CHAIM ZEMACH; Dipl Accademia Chigiana (Italy); Dipl Cologne University (Germany)
- LOUIS B. ZIMMER; BS, State University of New York at Cortland; MA, PhD, New York University
- PHILIP W. ZIPSE; BS, DePaul University; MS, University of Akron; PhD, Rutgers University

INDEX

Page	Page		
About the College	5	Mathematics	137
Academic Regulations	11	Montclair Educational Review	29
Administrative Sciences	145	Music	42
Admissions	7	Officers of the College	4
Adult and Continuing Education	30	Panzer School Council	186
Anthropology	189	Philosophy and Religion	104
Athletics	187	Physical Education	176
Biology	119	Physics and Geoscience	222
Business and Distributive Education	154	Psychology	210
Chemistry	126	Reading	35
Classics	74	Requirements for the Bachelor of Arts Degree	21
Communication Sciences and Disorders	192	Services and Facilities	11
Curriculum and Teaching	30	School of Educational and Community Services	21
Economics	195	School of Fine and Performing Arts ..	4
Educational Foundations	33	School of Humanities	7
Educational Leadership	34	School of Mathematics and Sciences ..	11
Educational Opportunity Fund	24	School of Professional Arts and Sciences	14
English	81	School of Social and Behavioral Sciences	18
Fine Arts	51	Sociology	21
French	88	Spanish and Italian	1
General Education Requirements	26	Speech and Theater	
General Humanities	94	Student Activities	
Geography	225	Student Personnel Services	
German and Russian	95	Student Teaching and Educational Placement	
Health Professions	159	Teacher Education	
History	199	Technology in Education	
Home Economics	163	Transcultural Studies	2
Human Organizational Processes	37	Tuition and Fees	
Human Sexuality	25	Upward Bound	
Industrial Education and Technology	172	Weekend College	
Intra-Collegiate Academic Programs	24		
Linguistics	101		

OFFICE OF ADMISSIONS
MONTCLAIR STATE COLLEGE
UPPER MONTCLAIR, N.J. 07043

FOURTH CLASS BOOK RATE

Return Receipt Requested



Montclair State College

Undergraduate Catalog

• 1977 • 1979 •



The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Montclair State College is an equal opportunity/affirmative action institution and does not discriminate on the basis of sex, race, color, national origin, age or physical handicap in providing access to the College's benefits, services, and employment opportunities in compliance with relevant federal and state legislation.

Inquiries may be directed to Dr. Edward C. Martin, Associate Dean of Students (and Designated Employee for Title IX and Section 504 compliance), 217 College Hall, 893-4118, or Ms. Anita Walters, Director of Equal Opportunity/Affirmative Action Office, 318-A College Hall, 893-4349.

Montclair State College Bulletin
Volume 70, Number 2
September, 1977

Office of Publications
Montclair State College
Upper Montclair, N.J. 07043

MONTCLAIR STATE COLLEGE

Upper Montclair, N.J.



Undergraduate Catalog
1977-1979

HOW TO GET TO MONTCLAIR STATE COLLEGE

Location

Montclair State College is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The College is one mile south of the junction of Route 3 and 46 on Valley Road.

Directions For Reaching the College

From **Bloomfield Avenue**, Montclair Center (Sear's store) proceed north on Valley Road—two miles to the Normal Avenue light.

Heading **east on Route 46**, the landmark is West's Sea Cove restaurant; take the next right, Valley Road—one mile to the light at Normal Avenue.

Heading **west on Route 46**, the landmark is the junction with Route 3. Turn on Valley Road to Montclair, bear right on clover-leaf and proceed south under Route 46—one mile to the light at Normal Avenue.

From the **Turnpike north of Exit 11 or south of George Washington Bridge**, turn at Route 3 West or Route 46 West, then as above.

From the **Turnpike south Exit 11**, leave the Turnpike at Exit 11 and follow directions for Garden State Parkway North.

Heading **north on the Garden State Parkway**, turn left at Exit 153B and proceed west on Route 3 to Valley Road.

Heading **south on the Garden State Parkway**, turn at Route 46 West (Clifton Exit 154) then to Valley Road. If you miss that turn, continue south to Exit 151, Watchung Avenue, then west to Valley Road and north to light at Normal Avenue.

The **No. 60 Public Service Bus** from Newark to Montclair terminates at the southwest end of the campus.

The **No. 66 DeCamp Bus** from New York, which leaves every hour or the half hour from Platform 73, Port Authority Bus Terminal, stops a Valley Road and Mt. Hebron Road—one long block from the campus.

The **Erie Railroad**, Montclair Heights Station, is at the southwest corner of the campus.

WHEN IN DOUBT

CALL

201-893-4000

TABLE OF CONTENTS

Trustees of the College	5
Officers of the College	5
College Calendar	6
Administration	7
About the College	10
Intra-Collegiate Academic Programs.....	11
Undergraduate Programs	13
Admissions Information	16
Tuition and Fees	20
Financial Aid	21
Requirements for the Baccalaureate Degree	23
Academic Regulations	27
College Services and Facilities	33
Student Affairs and Activities.....	40
School of Educational and Community Services	43
School of Fine and Performing Arts.....	58
School of Humanities	99
School of Mathematics and Science.....	154
School of Professional Arts and Sciences	188
School of Social and Behavioral Sciences	252
Faculty and Library Staff.....	306
Index	318

Return Receipt Requested



**David W. D. Dickson, BA, MA, PhD
President, Montclair State College**

BOARD OF TRUSTEES

Chairman
GERALD A. LeBOFF
Vice Chairman
ERNEST M. MAY
Secretary
MARY LEE JAMIESON
Ex-Officio
DAVID W. D. DICKSON

MILLICENT G. ANISFIELD
MELVIN HAUSNER
W. LINCOLN HAWKINS
HECTOR S. RODRIGUEZ
DALLAS TOWNSEND
STEPHEN G. WEISS

Faculty Representative,
Student Representative, KENNETH ROTHWEILER

As of September 22, 1977

OFFICERS OF THE COLLEGE

President
DAVID W. D. DICKSON

Vice President
for Academic Affairs
IRWIN H. GAWLEY, JR.

Vice President for
Academic Services
ROBERT E. MACVANE

Vice President
for Administration and Finance
ELLIOT I. MININBERG

Dean of Students
LAWTON W. BLANTON, JR.

Director, Sprague Library
BLANCHE HALLER

Deans of the Schools

PHILIP S. COHEN, School of Social
and Behavioral Sciences
HOUSTON G. ELAM, School of
Professional Arts and Sciences
W. BERNARD FLEISCHMANN,
School of Humanities
RICHARD A. LYNDE (Acting), School
of Mathematics and Science
DONALD M. MINTZ, School of Fine
and Performing Arts
ERCELL I. WATSON, School of
Educational and Community
Services
CARL J. SCHNEIDER, Graduate
Studies

Spring Semester 1978

January 16-19	Change of Program Registration
January 16-17	In Person Evening, Weekend and Graduate Registration
January 23	Classes Begin
March 20-27	Spring Recess—classes will resume at 1 pm, March 27
May 17-23	Examinations
May 24	Commencement
May 25	Rain date

Summer Sessions 1978

June 5-6	Registration for both Summer Sessions
June 12	Classes Begin—8-week session
June 26	Classes Begin—6-week session
August 4	Classes End—both sessions

THE COLLEGE RESERVES THE RIGHT TO MODIFY THIS CALENDAR



COLLEGE ADMINISTRATION

BARBARA RYAN, BA, BS, Assistant to President, College and Community Relations
HELEN M. OCHS, Special Assistant to President; Secretary, Board of Trustees
ANTHONY R. KUOLT, MEd, Administrative Associate, Academic Affairs
JUDITH E. KAUFMAN, MA, Administrative Assistant, Academic Affairs
PETER R. MACAGNE, BS, Assistant to Vice President, Administration and Finance
JOHN H. LEFFLER, MA, Assistant Director, Continuing Education
WILLIAM H. FARICY, PhD, Director of Institutional Research
MARY H. McKNIGHT, MA, Director of Public Information
JEROME R. QUINN, PE, Director of Institutional Planning
HARRY ROSENZWEIG, MS, Director of Cultural Programming
ANITA WALTERS, LLB, Director of Equal Opportunity/Affirmative Action Office
STEPHEN DOBISH, EdD, Academic Advisor, Graduate Office
SIMONE C. PICARD, MA, Academic Advisor, Graduate Office

EDUCATIONAL SERVICES

Admissions

ALAN L. BUECHLER, EdM, Director
MARY B. WILKIN, MA, Associate Director
FRANK C. ERDMAN, MA, Assistant Director
DONALD R. MACKAY, MS, Assistant Director
MARIANO VEGA, MA, Assistant Director
FRANK C. WILLIAMS, MA, Assistant Director

Computer Center

MALCOLM L. TRUESDELL, Director

Institute for Human Sexuality*

CHARITY RUNDEN, PhD, Director

Media Center

ROBERT R. RUEZINSKY, MA, Director
JOHN F. DIGLIO, MA, Associate Director
DAVID S. FOGG, MA, Associate Director

Psycho-Educational Center*

RUTH ROTHBART, MS, Coordinator

Registrar's Office

MARSHALL A. BUTLER, MA, Registrar
SALLY B. AYREY, MA, Associate Registrar
BRUCE R. BOWKER, BS, Assistant Registrar
KLEA S. HARTMAN, MA, Assistant Registrar
SELMA G. POLLOCK, MA, Assistant Registrar
LOIS R. WELSH, BA, Assistant Registrar
JESSE J. YOUNG, BA, Assistant Registrar
EMILY MUDRYK, BA, Evaluator
M. PATRICIA FRIES, MA, Evaluator
RUTH OVERHOLSER, BA, Evaluator
DIANNE RIVETTI, MA, Evaluator

Special Programs

Director to be announced

Cooperative Education

FREYDA LAZARUS, MA, Director

Educational Opportunity Fund Program

REUBEN JOHNSON, JR., MA, Director

CURTIS M. JACKSON, MA, Assistant Director

GERALDINE BARLOW, MA, Academic Advisor

EVELYN DEL TORO, MSEd, Academic Advisor

DEBORAH GILBERT, MA, Academic Advisor

JOSEPH JONES, MA, Academic Advisor

MARY V. LARSEN, MA, Academic Advisor

Second Careers Program

Director to be announced

Weekend College

JOHN J. SANZ, MS, Director

Women's Center

CONSTANCE WALLER, EdD, Director

STUDENT AFFAIRS

Student Personnel Services

LAWTON W. BLANTON, JR., MA, Dean of Students

EDWARD C. MARTIN, EdD, Associate Dean

JAMES E. HARRIS, MA, Assistant Dean

JON F. SOBECKI, MA, Academic Advisor—General Studies Students

Athletics

WILLIAM P. DIOGUARDI, MS, Director

FRED HILL, BA, Assistant Director

OLIVER S. GELSTON, MA, Assistant Director

RICHARD SOFMAN, MBA, Athletic Coach

McKINLEY BOSTON, MA, Coordinator of Intramural Activities

Career Services

PATRICIA HANEY, MEd, Director

Counseling and Psychological Services

SUSAN J. HERMAN, PhD, Director

ROBERT GOGGINS, PhD, Counseling Psychologist

Financial Aid

RANDALL W. RICHARDS III, EdD, Director

EDITH DUROY, MA, Assistant Director

MICHAEL J. QUINN, MA, Assistant Director

Housing

RAYMOND M. STOVER, JR., EdD, Director
LOIS D. REDD, MA, Coordinator, Housing and Food Services
JOHN T. SHEARMAN, MA, Residence Area Manager

Student Activities

THOMAS F. STEPNOWSKI, MA, Director
ROBERT G. GIEZA, BA, Assistant Director
LEE M. MARTIN, BS, Assistant Director
KATHLEEN E. RAGAN, BA, Assistant Director
BETH A. SHARP, MEd, Assistant Director

Physician

LILLIAN ROSENBERG, MD

Veterans' Affairs

WILLIAM J. CHAPMAN, MA, Coordinator

BUSINESS AND FINANCE

RICHARD R. DAVIS, MA, Acting Personnel Officer
WILLIAM J. KERVICK, BS, Director, Business Services
WILLIAM HOTALING, Acting Supervisor, Security and Safety
JOSEPH E. McGINTY, Engineer in Charge of Maintenance



ABOUT THE COLLEGE

Montclair State College is a publicly-supported institution of higher learning, offering programs on the Bachelor's and Master's degree levels to 15,000 students.

The College, founded in 1908 as a Normal School, now includes six distinct Schools and a Division of Graduate Studies.

Although the College is large, its individual Schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

Location

The College is located on a 145-acre campus in Upper Montclair, New Jersey, a suburban community fourteen miles from midtown Manhattan. As a result of this proximity to New York, students enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are a part.

Accreditation and Memberships

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates are accepted for membership in the American Association of University Women.

History and Goverance

From its founding in 1908 through 1927, the College was a Normal School, oriented to the education of public-school teachers. In 1927 it became the State Teachers College at Montclair, with the goal of preparing secondary-school teachers. Part-time and extension courses were added to the program in 1929, and the Summer Session in 1930. In 1932 the State Board of Education empowered the College to give graduate courses and grant the Master's degree. In 1958 Montclair State Teachers College merged with Panzer College of Physical Education and Hygiene, and offered a new major in health and physical education.

In July, 1958, the official institutional name became Montclair State College and the academic thrust was directed more strongly toward art and sciences programs. Since then the College has placed increasing emphasis upon the training of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers; at the same time it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College

own board of trustees. The board consists of nine citizens of New Jersey, appointed by the State Board of Higher Education and confirmed by the Governor. The president of the College is a member, ex officio. Faculty and student representatives are elected by their peers to meet with the board. This change in governance, which took effect on July 1, 1967, gave the College increased independence in the management of its program.

Financial Support

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources.

Goals

Since the establishment of the College's own Board of Trustees, the program offerings of the College have been constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and science and professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education; recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual in an expanding society.

INTRA-COLLEGIATE ACADEMIC PROGRAMS

The Office of Intra-Collegiate Academic Programs seeks to meet some of the changing needs of students and of education in the state through nine programs.

Campus Community Program

This program offers alternatives to the regular college curriculum through courses on contemporary concerns, approached in an interdisciplinary manner and leading to community involvement. Requirements are jointly determined by the professor and students.

Cooperative Education

Cooperative Education is a program in which the student receives academic credits for a full-time, off-campus job and is paid a full-time salary. Students involved in the program are supervised by a faculty coordinator. Depending on the department and the individual faculty supervisor, the student is responsible for specific assignments throughout his/her professional semester. Each department determines its own selection standards and prerequisite courses.

Educational Opportunity Fund

A student accepted into the E.O.F. Program is provided with such supportive services as evaluation, tutoring and counseling. All entering E.O.F. freshmen participate in the Achievement Motivation Development Project. This project attempts to simulate achievement behavior on the part of the student participants who are required to set goals and take responsibility for decision-making.

Center for International Education

The Center administers programs of study outside the United States such as the Winter Session in Europe and administers low-cost travel and tour programs. It provides information and counseling to Montclair students wishing to study, travel or work abroad through its library of reference materials on hundreds of available programs.

The Law Enforcement Education Program

The Law Enforcement Education Program provides academic course work for law enforcement officers as part of the Department of Justice Omnibus Crime Control and Safe Streets Act of 1968. Montclair State is an active member of the N.J. Council of Educational Institutions for Law Enforcement.

Second Careers Program

The Second Careers Program expands the college's service to the community by encouraging the re-entry of adults over 25 years of age into higher education. It offers its students a credit-bearing re-entry seminar, and academic, personal and career counseling. Referral services to appropriate resources for psychological, remedial, medical or financial assistance are also available.

Weekend College

The Weekend College offers courses on Friday evenings, Saturday and Sunday leading to the Bachelor's Degree in Business Administration, Mathematics (both in combination with regular day or evening courses), Psychology, Sociology and Spanish. Courses which fulfill requirements for majors other than those listed above are also offered.

The Weekend College also provides an education designed to meet the needs of the Spanish-speaking bilingual individual and is a valuable cross-cultural experience for English-speaking students seeking to work among the Spanish-speaking.

Full-time counselors are available.

Upward Bound

Upward Bound is a pre-college preparatory program designed to generate the skills and motivation necessary for success in education beyond high school among young people from low-income backgrounds with inadequate secondary school preparation.

Montclair State College cooperates with Saint Peter's College in the sponsorship of the program. The summer component is held on the Montclair campus and the academic year at Saint Peter's. Sixty students are recruited from Jersey City and ten from Montclair.

Women's Center

The Women's Center focuses on providing services for adult students faculty, staff and community women in addition to the regular studen

body. It is also concerned with raising the level of awareness and the interests of women and in helping to create conditions which allow women to share fully in the opportunities and resources of the college.

There is a weekly Wednesday noon program which includes speakers from on- and off-campus who represent a variety of careers and/or topics of interest. The schedule of speakers is issued each month.

UNDERGRADUATE PROGRAMS

Montclair State College is organized into six schools—Educational and Community Services, Fine and Performing Arts, Humanities, Mathematics and Science, Professional Arts and Sciences, Social and Behavioral Sciences—each with undergraduate and graduate courses. Major programs and degrees offered are listed below. Additional information regarding minor programs, teaching certificates, and specialized areas of concentration is described in the catalog under the appropriate schools and departments.

SCHOOL	MAJOR	DEGREES OFFERED
Educational and Community Services	Administration and Supervision	MA
	Counseling, Human Services and Guidance	MA
	Master of Arts in Teaching	MAT
Fine and Performing Arts	Fine Arts	BA, BFA, MA
	Music	BA, BFA, MA
	Music Therapy	BA
	Speech/Theater	BA, BFA, MA
Humanities	Classics	BA
	Latin	BA
	English and Comparative Literature	BA, MA
	French	BA, MA
	Linguistics	BA
	German	BA
	Spanish	BA, MA
	Italian	BA
	Philosophy	BA
	Philosophy/Religion	BA
	General Humanities	BA
Mathematics and Science	Biology	BA, MA
	Chemistry	BS*, MA
	Geoscience	BS*, MA
	Physics	BS*
	Mathematics	BS*, MA
	Computer Science	BA
Professional Arts and Sciences	Business Administration	BS
	Business and Distributive Education	BA
	Allied Health Professions	BS
	Health Professions	BA
	Home Economics	BA, BS and MA*
	Industrial Technology	BA
	Industrial Education and Technology	MA
	Physical Education	BA, MA
	Recreation Professions	BA

Social and Behavioral Sciences	Anthropology	BA
	Economics	BA
	Environmental Urban and Geographic Studies	BA
	History	BA
	Political Science	BA
	Psychology	BA, MA
	Educational Psychology	MA
	Communication Sciences and Disorders	BA, MA
	Transcultural Studies	BA
	Latin American Area Studies	BA
	Asian Studies	BA
	Social Sciences	MA

*Contact department for further information.

Part-Time Bachelor's Degree Programs

These undergraduate programs are designed for qualified graduates of accredited high schools, students who have earned the New Jersey High School Equivalency Certificate or qualified transfer students from other colleges who are interested in pursuing college study on a part-time basis in the late afternoon and evening during the academic year (September-May) and in the daytime, late afternoon or evening during the Summer Sessions (June-August). Part-time courses leading to the bachelor's degree are offered in the fields of Allied Health (limited to transfers from medical-related A.A. and A.A.S. programs only), Anthropology, Business Administration, Communication Sciences and Disorders (Speech Pathology), Economics, English, Geography and Urban Studies, History, Home Economics, Industrial Education, Mathematics, Political Science, Psychology, and Sociology.

Seniors may apply for admission to graduate programs during the semester prior to graduation. Those planning to matriculate in graduate programs at the College should take the aptitude section of the Graduate Record Examination.

WOMEN'S STUDIES MINOR PROGRAM

The Women's Studies Minor Program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the Minor program. Flexibility of choice for the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor to the Women's Studies Program, Dr. Constance Waller, to work out a suitable course of studies to meet the Minor requirements.

The Women's Studies Minor consists of 18 credits as follows:

A. Required Courses

1. Introduction to Women's Studies: 9 4990 0101

3 s.t.

A team of two or more faculty members from various disciplines employing scientific, sociological, historical, and artistic insights

methods, and data, examines the sources and meanings of the differential treatments of women in this and other human societies.

2. Independent Study: 9 4990 0401 3 s.h.
This course, required in the senior year, will have two options: a) advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; and/or b) a practicum of field work in which a student goes out into the community to work with women and to gain data and firsthand experience concerning the practical problems of women within various careers.

B. Electives

12 s.h.

Course No.	Course Title	Department
C 0821 4463	Women and Education in Modern Western Society	Education Foundations
C 0821 0264	Sexism in American Education	Education Foundations
K 1501 0492	Major Women Prose Writers	English
K 1501 0294	Women Poets	English
J 4903 0186	Myths and Images of Women in French Literature	French
N 1505 0096	Women and Language	Linguistics
P 1105 0096	Images of Women in Spanish Literature	Spanish
1 2202 0415	Women in Traditional Society	Anthropology
5 2205 0215	Women in American History	History
6 2207 0214	Women in Politics	Political Science
7 2001 0302	Psychology of Women	Psychology
7 2001 0446	Today's Woman	Psychology
7 2001 0379	Psychology and Literature: Women and Madness (also listed under English J 4903 298)	Psychology
X 1301 0205	Woman in Contemporary Society	Home Economics
8 2208 0430	Sociology of Sex Roles	Sociology
W 0837 0347	Health Issues Forum: Woman's Health	Health Professions
J 4903 0383	Women in Antiquity	Classics
O 1510 0285	Women in Religion	Religion

Total semester hours for the program

18 s.h.

Applications to have the Women's Studies Minor recorded on your transcript are available from the Academic Counselor(s) in each School.

For further information, contact:

Dr. Constance Waller
Women's Center
Life Hall
Tel. 893-5106

ADMISSIONS

Montclair State College, as an equal opportunity institution, seeks applications from all qualified students regardless of race, creed or national origin. Requests for application forms and inquiries concerning admission should be addressed to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address, accompanied by a \$10.00 non-refundable fee.

DECISIONS ARE ANNOUNCED ON A ROLLING BASIS UNTIL ALL SPACES ARE FILLED.

Accepted students are required to pay a non-refundable \$50 fee by May 1 to hold their places in the class. Accepted students must also file a medical form which will be mailed to them. It should be filled out by a family physician, certifying the candidate's health and physical fitness.

Accepted students who have completed special examinations administered by the Advanced Placement Board of the CEEB, CLEP examinations, or other standardized examinations, may submit the results for advanced placement credit. The college may grant earned college credits and/or a waiver of required courses.

Full-Time Freshman Admissions

Application forms are available from late summer through February 1. Full-time freshmen are admitted only for the September term and should have their applications on file by February 1. Notification is made on a rolling basis beginning in November.

Applicants should take the Scholastic Aptitude Test of the College Entrance Examination Board, no later than December of the senior year. Application for the test is made to the CEEB, four weeks before the desired examination date.

Achievement Tests are not required, but candidates wishing to demonstrate strengths in specific areas may submit Achievement Scores, taken no later than December of the senior year.

Applicants must present a certificate of graduation from an approved secondary school (or a High School Equivalency Certificate), showing the following college preparatory units:

English	
American History, Problems of Democracy	
Mathematics	
Science	
Foreign Languages.....	
Electives in social studies, science, mathematics or foreign languages.....	
Free electives	

TOTAL 1

Applicants may choose a major upon application, or defer the choice until after the freshman year. In the case of a declared major, the admissions staff will give attention to the preparation and demonstrate interest in the major; appropriate Achievement Test scores may be submitted in the application material for this reason.

Admission to physical education, fine arts, music or speech and theater depends upon successful completion of department tests, auditions or interviews.

Educational Opportunity Fund Admissions

The Educational Opportunity Fund (E.O.F.) Program is designed to recruit and admit disadvantaged students, in accordance with the provisions of the Educational Opportunity Fund Act of 1968. Academic support, financial aids and counseling are provided to assist students in adjusting to college life. Admission to the E.O.F. Program is based upon financial need and the potential to do college work, as shown through traditional and non-traditional indicators. Candidates who accept admissions to the E.O.F. Program are required to attend a pre-freshmen six week summer program.

Applications should be filed in the Office of Admissions before March 1 of the year in which entrance is desired.

Undergraduate Transfer Admission

Students who have been fully matriculated at another college or university file applications for transfer admission through the Office of Admissions.

The deadline for completing a transfer application is May 1 for the fall semester and November 1 for the spring semester.

Transfer applicants must have accumulated 15 s.h. of "C" work or better at an accredited institution before making application. Departments and Schools with performance criteria make final decisions in their respective areas. The College closely follows established guidelines of regional and national accrediting agencies when evaluating transfer credits.

Applicants who will have completed the regular program leading toward an Associate of Arts or Associate of Science transfer diploma may receive admission at the junior level, provided transfer admission requirements of the College have been met. Transfer applications from students who have been in terminal professional or technical programs, and those who have not completed a county or junior college transfer degree program will be evaluated on the basis of the specific courses they have taken and their applicability for transfer credit.

Foreign Student Admission

Students from foreign countries must complete an Application for Admission through the Office of Admissions.

Students from non-English speaking countries are required to submit scores from the Test of English as a Foreign Language. Since the 1-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Veteran Admission

The College is receptive to the special needs of veterans, who have their own set of deadlines (i.e., expiration date of benefits, early outs, etc.). Veterans are urged to seek information concerning admission to the

College throughout the year. A veterans' counselor is available on campus to assist veterans with their post-secondary school plans.

Second Baccalaureate Degree

Applicants for a second baccalaureate degree must have an earned baccalaureate degree from a regionally accredited institution, and a grade point average of at least 2.50. Second degree candidates are accepted on a space available basis as determined by the appropriate department.

Students accepted for this program register as undergraduates and are subject to the rules and regulations affecting undergraduates.

The candidates must fulfill all requirements of the degree major and complete a minimum of 32 semester hours in residence.

Part-Time Admission

Part-time students are admitted in February and September if applications are complete before the preceding December 1 or August 1. Part-time students may take a maximum of 9 semester hours per semester in late afternoon and evening classes. They may matriculate in 1 of 15 different majors by meeting the same standards and test requirements as full-time students. Provisional matriculation is possible with lesser credentials and without SAT scores. After 15 credits of "C" or better at Montclair, matriculation is then possible.

The 15 majors available in the part-time program are: Allied Health (limited to transfers from medical-related A.A. and A.A.S. programs only), Anthropology, Business Administration, Communication Sciences and Disorders, (Speech Pathology), Economics, English, Geography and Urban Studies, History, Home Economics, Industrial Education, Mathematics, Political Science, Psychology, and Sociology. A student with less than 36 credits, undecided on a major, may also apply.

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Entrance Placement (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate Department Chairman and School Dean to determine specific possibilities within their area of competence.

Credit By Examination and Experience

Montclair State College offers the opportunity to all students to earn up to sixty semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to thirty credits; thus the Bachelor's degree may be earned in three years. In addition to the general examination, there are also over thirty CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month.

Since CLEP scores must be submitted *prior to enrollment*, these tests should be taken at least two months before the beginning of the semester. Montclair State College is a test center and an application for the tests may be obtained by writing to:

CLEP Test Center
Department of Adult & Continuing Education
Montclair State College
Upper Montclair, NJ 07043

While attending Montclair, there is the opportunity to take a subject matter Challenge Examination for many of the courses at the College. Not all courses at the College are eligible for credit by examination.

Veterans' Credit

All Veterans who have completed a minimum of six months active duty are eligible to receive 3 elective credits, one of which fulfills the 1 semester physical education requirement. Applications to receive these credits are available in the Office of the Registrar.

Schedule of Tuition and Fees, Refund and Withdrawal Policies **

A. Tuition

1.	Undergraduate students, per semester hour	(in state)	\$ 22.00
		(out of state)	44.00
2.	Graduate students, per semester hour	(in state)	45.00
		(out of state)	65.00

B. Fees (Non-refundable)

1. Student Union Building fee, paid each time a student registers, \$2.50 per semester hour, to a maximum of 30.00
2. General Service fee, paid each time a student registers, \$1.50 per semester hour
3. Late Registration fee, for students whose initial registration is during a late registration period 15.00
4. Change of Class Schedule fee, for students who make changes or additions to their original class schedule other than withdrawal from a course, per added course 5.00
5. Parking (Decals purchased for the fall, 1977 or spring, 1978 are valid for summer, 1978) Summer decal only 5.00
6. Music fees—Students registering for applied music courses pay tuition and fees, plus the music fee as listed below:

	Music fees
1 semester hour (8 lessons)	\$120.00
2 semester hours (15 lessons)	225.00
3 semester hours (15 lessons)	190.00
4 semester hours (15 lessons)	155.00
6 semester hours (15 lessons)	85.00

All Checks Should Be Made Payable To: Montclair State College.

C. Minimum Undergraduate Tuition and Fees

Semester
Hours

	Tuition		Fees		Total	
	Out of State	*In State	General Service	Student Union	Out of State	In State
1	44.00	22.00	1.50	2.50	48.00	26.00
2	88.00	44.00	3.00	5.00	96.00	52.00
3	132.00	66.00	4.50	7.50	144.00	78.00
4	176.00	88.00	6.00	10.00	192.00	104.00
5	220.00	110.00	7.50	12.50	240.00	130.00
6	264.00	132.00	9.00	15.00	288.00	156.00
7	308.00	154.00	10.50	17.50	336.00	182.00
8	352.00	176.00	12.00	20.00	384.00	208.00
9	396.00	198.00	13.50	22.50	432.00	234.00
10	440.00	220.00	15.00	25.00	480.00	260.00
11	484.00	242.00	16.50	27.50	528.00	286.00
12	528.00	264.00	18.00	30.00	576.00	312.00

*In order to qualify for the in-state tuition rate, you must be a permanent resident of New Jersey for a minimum of 1 year prior to the beginning of the current semester.

**Tuition and fees are subject to change at any time by action of the State of New Jersey Department of Higher Education.

D. Payment of Tuition and Fees

1. Students are expected to make payment at the time of registration.
2. Any questions concerning financial aid or deferred payment should be directed to the Financial Aids Office (Room C-311) prior to payment of bill.
3. A COPY OF THE APPROVED DEFERRED PAYMENT FORM OR EVIDENCE OF TUITION WAIVER MUST BE PRESENTED IN LIE OF PAYMENT.
4. ALL CHECKS AND MONEY ORDERS SHOULD BE MADE PAYABLE TO: MONTCLAIR STATE COLLEGE.

E. Refund and Withdrawal Policies

In accordance with the New Jersey State Board of Higher Education policy dated July 16, 1976, the following uniform schedule of refunds effective in all New Jersey State Colleges:

1. Tuition and service charges are refunded in full if classes are discontinued by college authorities.

Per Cent Refund

2. Withdrawal before course begins. 100
3. Withdrawal during first third of course 50
4. Withdrawal after the first third of course No
5. Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

NO WITHDRAWALS WILL BE ACCEPTED AFTER THE MIDPOINT OF THE SEMESTER. IN COMPUTING REFUNDS, THE DATE OF WITHDRAWAL IS THE DATE ON WHICH THE OFFICE OF THE REGISTRAR RECEIVES A WRITTEN NOTICE FROM THE STUDENT.

Student Financial Aid

The Office of Student Financial Aid, realizing that success in intellectual pursuits can be adversely affected by economic difficulties, provides financial assistance to eligible students through the programs listed below:

1. Federally funded programs such as the National Direct Student Loan Program (NDSL), the Supplemental Educational Opportunity Grants (SEOG), Basic Educational Opportunity Grants (BEOG), and the College-Work-Study Program (CWS).
2. State of New Jersey assistance through the N.J. State Scholarship, the County College Graduate Scholarship, the Educational Opportunity Fund, and the Student Assistants Program.

Information regarding other sources of assistance including the N.J. Higher Education Assistance Authority Loan Program, the Social Security Administration, Veterans' Benefits, the War Orphans Benefit Program, and the N.J. Rehabilitation Commission may be obtained from the Financial Aid Office or sponsoring agencies.

Programs of financial assistance are revised from year to year and hence both eligibility criteria and the availability of funds may change. For further information, contact the Director of Financial Aid, College Hall Room 311.

Special Awards, Funds, Scholarships

Montclair State College has received very significant financial support from the Montclair State College Development Fund, the Alumni Association, civic and professional groups, private industry and business, and numerous individuals who share our interest in quality higher education.

Listed below are some of the awards, funds, and scholarships established by the College's benefactors. Individuals interested in obtaining further information should contact Dr. Edward C. Martin, Associate Dean of Students, 217 College Hall.

Delphes Club Scholarship
 Iota Phi Omega Scholarships
 Alumni Association Scholarships
 Croce Education Society
 Ella Weiller Assistance Fund
 Jeffrey Scholarship Fund
 Chapin Memorial Fund
 Charles Bargerstock Memorial Fund
 Clarence O.S. Howe Memorial Organ Fund
 Delta Kappa Psi Achievement Award
 Delta Kappa Psi Distinguished Service Award
 Delta Kappa Psi Merit Award
 Edward Russ Scholarship Fund
 Emergency Student Loan Fund
 Anna Fantone Fund
 Field Studies Fund
 George Placek Award

Grant Charitable Trust
Italian Club Scholarship
John C. Stone Scholarship
Judge Esther Unterman Scholarship
Julian F. Jaffe Memorial Award in
History
Katherine B. Hall Award
Malcolm Fairfield Fund
Margaret B. Holz Fund for Student
Exchange
Margaret Pierce Scholarship
Margaret Shepard Memorial Scholarship
Mark Andrews Scholarship Fund
Marshall Lloyd Simonson Award
in Creative Promotion
McEachern Music Fund
New Jersey Bell Telephone Company
Scholarships
New Jersey Extension Homemakers
Council Scholarship
New Jersey Heavy & Highway Construction
Industry Fund
New Jersey Home Economics Association
Scholarship
Phi Eta Sigma Scholarship
Ralph LaSalle Scholarship
Richard Willing Scholarship
Scott & Dorothea Harris Scholarship
Teresa DeEscoriaza Scholarship
Teresa Farrell Scholarship
The Milstead Award
The Vincent and Dorothy Farrell Scholarship
William Dortch Fund
William McLean Scholarship in History
Women's Center Scholarship



THE ACADEMIC PROGRAM

Undergraduate Degree Requirements

General Education Requirement	37-48 s.h.
Distribution Requirement.....	36 s.h.
Communications Requirement.....	0-9 s.h.
Physical Education Requirement	1 s.h.
Minorities Culture Requirement*	
Major Field	32-34 s.h.
Electives	48-59 s.h.
	Minimum 128 s.h.

- It is recommended that whenever possible a student complete the General Education Requirement during the first two years of study.
- Courses in the student's major do not count toward fulfillment of the General Education Requirement. This restriction does not apply to a second major in cases of a double major.
- No course used in the Educational Sequence for certification may be credited to fulfill the General Education Requirement.

*The Minorities Culture Requirement may be fulfilled as part of the General Education Distribution, the major, or electives.

General Education Distribution Requirement

The General Education Distribution Requirement consists of 36 semester hours from the three areas listed below. The student will select 12 s.h. of General Education courses from a minimum of 3 disciplines in each of these areas. Among the total 36 s.h., the student will include 2 courses from a single discipline (in the area or discipline of his/her choice). Not all courses in each discipline can be used to fulfill the distribution requirement. See the list of courses in the current "Undergraduate Degree Requirements" booklet.

I. Humanities and the Arts

- Educational Foundations
- English, Comparative Literature, Communications
- Fine Arts
 - Foreign Languages (French, German, Italian, Spanish, Russian, Latin, Greek, Portuguese, Swahili)
- General Humanities
- Linguistics
- Music
- Philosophy and Religion
- Speech and Theater

II. Pure and Applied Sciences

- Administrative Sciences
- Business and Distributive Education
- Earth Science
- Health Professions
- Home Economics
- Industrial Education & Technology
- Interdisciplinary Science

Life Science
Mathematics and Computer Science
Physical Education
Physical Science
Recreation Professions

III. Social & Behavioral Sciences

Anthropology
Communication Sciences & Disorders
Economics
Geography/Urban Studies
History
Human and Organizational Processes
Political Science
Psychology
Sociology

Communications Requirement

All students must demonstrate proficiency in three areas of communication: speaking, reading, and writing. Any course taken to meet this requirement may not be used to satisfy the General Education Distribution Requirement. The communications requirement is outlined below:

I. Demonstration of Proficiency:

Levels of acceptable proficiency in writing and reading will be determined. Students may demonstrate proficiency in each of the three areas by one of the following procedures:

- A. Transfer Credit
- B. Internal challenge examinations — The student may submit an application to the appropriate department to allow him/her to demonstrate proficiency in lieu of registering for a course. Students who do not pass the speech proficiency screening, but are not in the category of referral for remedial work, will enroll in one of the designated 100 level courses.
- C. Completion of a course at Montclair State College as described below.

In addition to the procedures mentioned above, the student may demonstrate proficiency:

in writing by presenting work completed prior to coming to Montclair (i.e., a research paper meeting college standards supplemented by a short essay written under the supervision of the English Department);

in reading by writing an essay or having a conference on reading selection previously assigned under the supervision of the English Department.

II. Communications Courses:

A. Writing:

1. English 100 Writing Workshop;
2. English 103 Special Communication Techniques;

3. English 105 Freshman Composition;
4. English 107 Writing and Literary Analysis I.

B. Reading:

1. English 106 Introduction to Literature;
2. English 108 Writing and Literary Analysis II;
3. Any course dealing with the critical reading of imaginative literature in the original language, here understood to be English.

C. Speech:

1. Speech 100 Fundamentals of Speech;
2. Speech 103 Voice and Speech Improvement (for Speech and Theater majors only);
3. Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns;
4. Speech 160 Oral Interpretation of Literature;
5. Speech 234 Fundamentals of Public Speaking.

III. Provisions for Non-Native Speakers of English:

Those students who take the tests especially designed for non-native speakers of English and who do not demonstrate an acceptable level of proficiency, must take ESOL I, Speech 105, ESOL II and the College Reading Improvement sequence. Upon completion of this program, the students will be retested. Those who do not attain an acceptable level of proficiency will be directed into one of the following courses, dependent upon the individual's needs: ESOL III, or the English Writing Workshop.

- A. Linguistics 111 English for Speakers of Other Languages I (prerequisite for Speech 105 and ESOL II).
- B. Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns.
- C. Linguistics 112 English for Speakers of Other Languages II.
- D. Education 0808 0405 College Reading Improvement (1 s.h.)

Physical Education Requirement

Courses which satisfy this requirement are included in the "Undergraduate Degree Requirements" booklet.

A fee is charged for courses such as skiing, scuba diving, ice skating, etc.; check with the department at registration.

Notice from the student's physician should be forwarded to the department chairman if physical limitations are a consideration.

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 32 to 34 semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or sub areas of concentration. For details on specific programs, consult the curriculum guides prepared by the school counselor.



Minor Programs

A student may choose an academic minor as a second field of lesser specialization. Requirements for the minor programs are listed in the school curriculum guides.

Minorities Culture Requirement

The purpose of the "minorities requirement" is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S.* Even though women do not represent a statistical minority, they have shared "minority" status and could be considered as part of this requirement. A list of courses is included in the "Undergraduate Degree Requirements" booklet.

*U.S. Department of Labor categories:

1. Blacks
2. Hispanics
3. American Indians
4. Asian or Pacific Islander

ACADEMIC REGULATIONS

Family Rights and Privacy Act

The *Family Rights and Privacy Act of 1974* (Buckley Amendment), designed to protect the privacy of students and parents, includes requirements governing access to students' educational records. Montclair State College has established appropriate procedures for granting access by students to their own educational records within a reasonable period of time, but in no case shall access be delayed more than 45 days after the request has been made. Educational records include those maintained by the Office of Career Planning and Placement, Student Personnel Services (including financial aid information), Graduate Office, Health Services, and the Office of the Registrar.

The College will not release records deemed educationally or personally identifiable without the written consent of the student with certain exceptions. Students may challenge content of these records to insure that they are not inaccurate, misleading or otherwise in violation of the privacy or other rights of students. However, a student does not have the right to a hearing on matters of academic judgement.

For further information consult the College Handbook on the Buckley Amendment located in the Dean of Students' Office.

Registration

General course selection at Montclair State College is accomplished through a mail registration procedure twice a year. Students receive registration materials in the mail and return them properly completed to the Office of the Registrar. Since the Master Schedule is developed and administered through a series of data processing steps students are urged to read registration materials thoroughly before completing registration forms. Students should consult their advisor or the Counseling Offices for assistance with this activity.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Students paying on a per credit basis may then register in another course of equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and therefore cannot guarantee students faculty of their choice.

Audit Policy

Undergraduate and graduate students who do not want college credit may audit courses. All persons who wish to audit courses must apply and be admitted to the College, complete the appropriate registration and audit forms and pay the same tuition and fees as other students.

Student Credit Load

A student should earn 15-16 credit hours, on the average, per semester. However, students are permitted to enroll for up to 19 semester hours. Overload approval may be granted by the School Dean not exceeding one 3 credit course if the student has at least sophomore standing and has a 3.0 or better average for the semester just completed. Exceptions

to this policy may be granted only by the School Dean. Students requesting 22 credits or more must obtain permission from the Vice President for Academic Affairs.

Registration for overload takes place during the "Change of Program" period. The necessary permission forms may be obtained in the Office of the Registrar.

Attendance Policy

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. The student should ascertain individual attendance requirements from the instructor at the onset of the semester.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of class to confirm his/her registration.

Residence Requirements

A minimum of thirty-two credit hours must be completed at Montclair State College and the final twenty-four credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a MINIMUM of twelve credit hours of upper-level coursework in the major at Montclair State College. Some curricula may require more than this minimum.

Academic Advisement

New students are assigned to a faculty member from their major departments for general counseling and academic advisement. A full-time academic counselor is assigned to each of the Schools to counsel students regarding curriculum planning, registration, and choice of major. There is also an academic counselor available to students who enter the College undecided on a major.

A Freshmen Seminar provides students undecided on a major with information concerning educational opportunities and services of the College. Others may enroll on a space available basis.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the courses' subject matter, varies with individual professors and classes.

Final examinations (or evaluations) are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades

Marks for coursework are given as follows:

A—excellent	P—pass	NR—not reported*
B—good	F—failure	NC—no credit
C—satisfactory	IN—incomplete work	AU—audit
D—poor	WD—withdrawn	

Academic standing is indicated by a grade point average based on "A" having the value of 4; "B" of 3; "C" of 2; "D" of 1; and "F" of 0. The GPA is calculated by multiplying the number of semester hours for the course times the grade value listed above, adding these values for all the courses taken and dividing by the number of semester hours completed.

*Used if faculty member fails to submit a timely grade report to the registrar.

Incomplete Work

The grade "IN" indicates that the student has not completed the course and that a grade is withheld until the work is performed and approved. It is the student's responsibility to make arrangements with the instructor to complete the required work. The "IN" not replaced by a final grade automatically becomes an "F" by the end of the final examination period of the following semester (not including summer session). Exceptions can be granted only by the appropriate School Dean.

Pass/Fail Grading

Students may take one course per semester on a Pass/Fail basis. The entire teacher certification program and courses counted toward completion of the academic major, including collateral courses taken in conjunction with the major, are ineligible. Special programs offering courses only on a Pass/Fail basis such as Teacher's Assistants, Freshman Seminar, Reading Lab, and Campus Community Programs may be taken in addition to one regular course per semester on a Pass/Fail basis.

Students may register for the Pass/Fail option by completing a form available in the Office of the Registrar prior to the end of the third week of classes for courses of one semester's length or the equivalent of this for short term and summer courses.

Repeated Courses

Students should repeat a course they have failed as soon as possible. A student must repeat a failure if the course is required for graduation. When a course has been repeated at MSC, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally students may not repeat courses in which grades of "D" were received, unless they are sequential courses. These may be repeated only with permission of the Vice President for Academic Affairs. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated.

Independent Study

Students may take courses on an independent basis in accord with College procedures and with the permission of the instructor and the department involved. A detailed plan of the independent study project to be undertaken must be submitted and approved at the time of registration or the course.

Official Withdrawal From Courses

Students who wish to withdraw from courses must complete a withdrawal form in the Office of the Registrar. Withdrawal from courses is

allowed until the midpoint of the course. A student who unofficially withdraws from courses, changes an assigned section, or ceases to attend classes, will be given a grade of "F".

Class Standing

For sophomore standing a student must complete 26 credit hours with an average of 1.6; junior standing, 58 credits with an average of 1.8; senior standing, 90 credits with an average of 2.0. For graduation, 128 credit hours are required with a 2.0 average as well as 2.0 in the major. Transfer students must show a cumulative grade point average of at least 2.0.

Academic Honors List

The Academic Honors List, issued at the close of each semester, gives recognition to students with a 3.5 or higher semester G.P.A. if a minimum of 12 credits are earned in courses that contribute to the G.P.A.

Graduate Level Courses

MSC undergraduates with a grade point average of 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of course work for graduate credit.

Qualified seniors must secure an application from the Division of Graduate Studies Office and have it approved by the Registrar, the chairman of the appropriate graduate department and the Dean of Graduate Studies.

Students must register separately for these courses, and pay graduate tuition on a per credit basis, in addition to regular full-time tuition.

Admission of undergraduates to senior graduate courses does not imply future acceptance into the graduate program. This can only be achieved through the matriculation process. Any courses taken for graduate credit do not apply toward the undergraduate degree.

Probation

A student whose grade point average for a semester, or cumulatively, falls below the 2.0 mark is placed on probation for the succeeding semester. Usually students are not permitted to remain in the College for more than two consecutive probationary semesters. The Academic Review Committee reviews the records of probationary students each semester.

Academic Furlough

Students whose cumulative GPA is not at the retention level may be placed on academic furlough after one calendar year from the original date of enrollment. During this period students may not take coursework at Montclair State College. They may reapply for admission beginning one calendar year following the furlough and, if re-admitted, are given two academic semesters to demonstrate satisfactory progress toward the degree. If this is not demonstrated, the student is given an Academic Dismissal.

A student may appeal in writing to the Office of Academic Affairs (C 227) within seven days of the date of receipt of the letter advising he/she is on academic furlough.

The appeal letter must state clearly the academic reason for the appeal.

If the appeal is because of an incorrect grade on the transcript, a transcript corrected by and signed by the Office of the Registrar should be delivered to the Office of Academic Affairs.

Summer Session Attendance at MSC

MSC undergraduates wishing to attend summer session at MSC must obtain a summer session registration form on which desired courses are listed. Undergraduates may enroll for a maximum of 9 semester hours during the six-week summer session although a lighter load is recommended. To be eligible for summer session, students must meet retention standards of the College at the time of registration and secure the signature of their School counselor on the summer session registration form. Courses for students undecided on a major are reviewed by their academic counselor.

Summer session does not have a separate admissions date. Students accepted for September may begin in the summer if they wish.

Visiting Students from other colleges may attend summer session or either semester by showing a letter of permission from their home college at registration time. Enrollment is on a space-available basis and no permanent record is set up at Montclair. A visitor who wishes to remain at Montclair must file an application before the appropriate deadline for the next semester.

Summer Session Attendance at Another Institution

Students wishing to attend summer session at another institution must complete the appropriate form available in the Office of the Registrar and obtain the approval of their major department chairman. Students undecided on a major must obtain permission from their counselor. Rules concerning transfer credit apply to summer work taken at another institution.

Leave of Absence

Students in good academic standing may take a leave of absence of one or two semesters by arrangement through the Office of the Dean of Students.

Students who take a leave are guaranteed re-admission if they file with the Office of Admissions an application for readmission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal re-admission procedures if they wish to attempt to return to the College.

Withdrawal from College

A student wishing to withdraw from the College should see the Associate Dean of Students in the Student Personnel Office and complete an official withdrawal form. The signature of a parent or guardian is required on the withdrawal form if the student is a minor. Strict adherence to the withdrawal procedure is necessary for possible future readmission.

Student Conduct and Discipline

A student enrolled at the College assumes an obligation to conduct himself/herself in a manner compatible with the College's function as an educational institution.

The Dean of Students' Office coordinates student discipline and provides broad counseling of student needs and problems.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Final Evaluation

IT IS THE STUDENT'S RESPONSIBILITY to complete requirements as prescribed in the College Bulletin under which they entered or as subsequently modified. Graduation requirements include a minimum G.P.A. of 2.0 on a cumulative basis and also in the major. All questions regarding a student's program of studies should be referred to the faculty advisor or a school counselor. IT IS THE STUDENT'S RESPONSIBILITY to meet all graduation requirements.

Seniors who are eligible for graduation must file an Application for Graduation Form in the Office of the Registrar according to the following schedule: by October 1 for the following June; May 15 for the following January; December 15 for the following August graduation.

The student will be mailed a copy of his/her final evaluation, which will detail the requirements necessary in order to meet the intended date of graduation.

Students who will be eligible for New Jersey State Teaching Certificates must complete the application and pay the required fees (in the Office of the Registrar) during the following periods: March 1 to April 1 for June graduation; October 15 to November 15 for January graduation; June 15 to July 15 for August graduation.

Transcripts

Students may obtain transcripts of their own from the Office of Registration at a cost of \$2.00. Transcripts must be requested in writing.

Honors

Students graduating with grade point averages of 3.45 or better for all undergraduate courses with a minimum of 60 credits completed at MS are recognized as honor students. Designations are as follows:

Average of 3.45—3.64	cum laude
Average of 3.65—3.84	magna cum laude
Average of 3.85—4.0	summa cum laude

COLLEGE SERVICES AND FACILITIES

Adult Education Resource and Service Center

The Center offers in-service training of teachers in programs of adult education, with emphasis on reading improvement for the under-educated adult. It maintains a library for curricula development and instruction, develops low-literacy materials and conducts seminars to aid municipal agencies in communicating with their clientele.

Alumni Association

Graduates of Montclair State are members of the Alumni Association. Each year the Association Executive Board and the Alumni Director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair.

Athletics

Intercollegiate athletics are under the auspices of Athletics and are coordinated by a board of student, faculty and alumni representatives called the Intercollegiate Athletic Council. The intercollegiate program provides students of all the Schools with common and unifying activities.

The women's varsity program includes basketball, fencing, field hockey, gymnastics, softball, swimming, tennis and track. The College is a member of the Association of Intercollegiate Athletics for Women and the Eastern Association of Intercollegiate Athletics for Women.

The men's intercollegiate sports are baseball, basketball, cross-country, fencing, football, golf, lacrosse, soccer, tennis, track and wrestling. Rules of eligibility are determined by the College, the Eastern College Athletic Conference and the National Collegiate Athletic Association.

All participants in the intercollegiate program must pass a medical examination each year.

Physical facilities include:

Panzer Gymnasium—Regulation size swimming pool; three basketball courts; gymnastic facility; wrestling room and sauna bath; weight-training facilities; indoor batting cage for baseball and golf; and separate training rooms for men and women.

Prague Field—seating for six thousand; natural turf; permanent lighting system; cinder track (all home football games, some lacrosse, and soccer are scheduled for this facility).

Ittser Field—Baseball diamond; practice area for football; and intramurals. Eight tennis courts and a lighted platform tennis court are adjacent to field.

Tility Field—Practice area for various activities.

Athletic fields are being planned for the newly acquired land on the northern section of the campus.

Director: Dioguardi

Assistant Directors: Gelston and Olson

Head Coaches: DeCicco, DeRosa, Farbstein, Galate, Gelston, Grey, Harris, Hill, Olson, Meyer, Peterson, Petty, Schleede, Sofman, Taigia, Wendelken, Willard, R. Wolfarth, T. Wolfarth

Campus Employment

There are a limited number of openings for employment on campus available to full-time students who are taking courses at Montclair State College. Students may be employed either under the College Work Study Program or Student Assistance Program, depending upon financial need.

For further information, inquire at the Financial Aids Office, Room 311, College Hall—(201) 893-5244.

Career Services

The purpose of Career Services is to provide resource information and career counseling for students and alumni seeking help in utilizing their college degrees in satisfying careers. The Office serves both students and graduates who are unsure of career directions as well as those who have particular goals in mind.

Non-teaching majors are assisted by the office with career counseling, seminars, on-campus recruitment, Career Library, credential service and full-time and part-time job openings. Career Services offer resource information on insurance, banking, law, Federal and State Civil Service, manufacturing, social service agencies as well as many other career fields. Early contact during the undergraduate career is advisable.

Computer Center

The Computer Center provides facilities for both academic and administrative functions of the College. In consortium with the other state colleges and Rutgers, the College offers computer services using the latest technology available and is a joint owner of ECN, The New Jersey Educational Computer Network.

The College offers a variety of services from two locations. The administrative support personnel are housed in College Hall and all administrative data processing is handled there. Several keypunch and unrecord devices are available at the Center for faculty or student use, including an IBM 1130 Computer for processing batch jobs through the 370/168 at ECN.

The College offers support for the computing requirements of the academic areas in the Math/Science Building, Room 110. There is a batch Remote Job Entry Terminal as well as 13 Timesharing Terminals, where students and faculty may use a wide assortment of languages and methods offered through the 370/158-370/168.

There are handbooks and reference documents available to those wishing to use the various services at both locations.

Educational Foundation for Human Sexuality

The Educational Foundation for Human Sexuality was established in 1967 to help schools and communities as they began planning k

ergarten-through-twelve programs of sex education. Despite broadened interests and services, the Foundation still spends much of its time with schools and in courses for teachers. It operates a Speakers Bureau; coordinates on-campus and off-campus graduate and undergraduate courses; offers courses in adult education; offers school and community consultation services; co-sponsors the distribution of audio-visual materials through the College's Media Center; maintains a library of books and periodicals and a research library of reprints and journal articles; edits and writes books and articles on research and education in the field, sponsors an annual Conference, works with dormitories, campus organizations, and individual students on interests concerned with sexuality.

A new service of the Foundation is counseling and therapy for sexual problems or dysfunction. This service is offered to students, staff, and faculty members.

The Foundation, currently housed in the Legge House on campus, is part of the Psychology Department in the School of Social and Behavioral Sciences.

Health Services

The staff of the College Health Center is comprised of one doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance, providing accident and sickness benefits, is available at a moderate annual premium of \$22.50, payable at registration. Participants in collegiate athletics are required to have this coverage. Additional information is available from the Student Personnel Office, College Hall 217, or the Health Center.

Housing

Students may apply for on-campus housing after being accepted for admission. Assignments are made for one year only to one of four residence halls or the Clove Road Apartment Complex. The Residence Hall Federation, Housing Officers and Hall Directors determine policies for the buildings. Undergraduate Resident Assistants help freshmen adjust to residence life.

Students who cannot be accommodated on campus are assisted in finding housing in private homes and apartments in the area. The Off-campus Housing Office provides assistance in all matters related to off-campus housing.

All housing assignments are made without regard to race, creed, color, national origin or ancestry.

Library

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. Academic support is provided for undergraduate, graduate, and special programs offered by the College. Librarians are on hand to guide students in the use of the library's substantial and constantly expanding collection of books, periodicals and various forms of non-print media such as microforms, cassettes, video tapes, film loops, discs, etc.

The library is a depository for United States and New Jersey Government publications, and holds special collections that include the China Institute Library and four important poetry collections. Orientation and reserve materials are provided on request for professors and interlibrary loan is available to all members of the College. During semesters, the library is open seven days a week.

Library facilities include study tables, individual carrels, large and small conference rooms, and lounge areas. The smoking lounge and a student typing room are located on the lower level. Copying facilities for both hard copy and microforms are available at nominal cost.

Media Center

The Media Center has been an instructional support service of the total College community for over thirty years. Its primary function has been to provide class instructional materials of non-book nature for use by faculty and students. The program and student activities frequently require the use of communication media and ancillary materials. The Media Center has undertaken to provide service to these academic endeavors. It offers support service rather than direct instruction, through purchasing, distributing and circulating audio-visual equipment. It maintains, services and repairs all audio-visual equipment on campus.

Parking Facilities

The College maintains several parking lots for use by students, as designated on all maps of the campus. The College assumes no responsibility for cars or their contents while parked.

Vehicles and Parking on Campus

1. A current appropriate parking decal must be properly displayed in the following manner:
auto: inside left rear passenger window, truck: inside lower left hand side of rear window,
motorcycle: affixed next to the New Jersey inspection sticker.
Failure to display a current appropriate decal will result in the issuance of a MUNICIPAL summons returnable in either the Little Falls or Montclair municipal courts.

Regular Decals: Regular decals may be purchased at the Student Vehicle Registration Table during registration or at the College Business Office (College Hall, Room 218). No more than two (2) decals will be issued per student. Evidence that both vehicles are registered in the same family name must be presented. The fees for vehicle registration are:

automobiles and trucks: \$10 for the first vehicle registered
 \$ 5 for the alternate vehicle
 \$ 5 for Summer Session decal only.

Overnight Decals: Residence Hall students may obtain an Overnight Decal by presenting written authorization from the Housing Director's Office to the Business Office and paying the above noted applicable fee.

Physically Disabled Members of the College Community

Medical verification of the disability (temporary or permanent) must be presented to the Office of the Dean of Students. Upon verification of need by said office an appropriate decal or temporary permit will be issued by the Office of the Director of Security and Safety. A vehicle with a Disability Decal or Permit may park in any of the parking lots (time limits in Limited Time Areas must be observed). Regular fees are applicable.

2. Summons

MUNICIPAL SUMMONS: A municipal summons is returnable in the municipal court of the town stated on the summons (Little Falls or Montclair). The stated fine may be mailed to the address noted on the summons. The municipal summons cannot be paid or appealed on campus.

CAMPUS SUMMONS: A campus summons must be paid at the College Business Office. A campus summons may be appealed at the Office of the Council on Commuter Affairs. The campus summons must be paid or appealed within ten (10) days of issuance. Failure to do so may result in the withholding of grades and/or transcripts.

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselors have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems such as test anxiety, sexual definition and overeating.

Psycho-Educational Center

The Center has been designed to train graduate and selected undergraduate students in the areas of School Psychology, Learning Disabilities, Reading, Speech, Audiology, Student Personnel Services, Teachers of the Socially and Emotionally Disturbed; undergraduate areas of Music and Art Therapies and Industrial Education, in the diagnosis of remediation of people with learning, language and speech problems. It additionally serves the community by offering programs that suit the mutual needs of students and clients.

Religious Facilities and Programs

The Newman House, 894 Valley Road, is associated with the Catholic Church but is open to students of all religions. A lounge and library are available for students and faculty and a liturgy is celebrated daily.

The Jewish Student Union is located on the first floor of Life Hall.

The Montclair Protestant Foundation is located in the Student Center.

These groups sponsor and often co-sponsor events of an artistic, intellectual, social or theological nature.

Father Herbster, Rabbi Schnitzer, and Reverend Kaighn share an office in the Student Center and are available for counseling. They can be reached at 744-6171.

Remediation Programs

Mathematics - Learning Resource Center

The Learning Resource Center provides remedial assistance to students in the area of mathematics. It is directed and supervised by graduate assistants. Contact the Mathematics Department for specific hours.

College Reading Improvement Program

The College Reading Improvement Program gives students an opportunity to improve their ability to process college-level information. This involves instruction in both "reading" skills (comprehension, vocabulary, rate) and "study" skills (concentration, retention, notetaking, test-taking, etc.). The program, part of the Reading and Study Skills Center, provides testing services; a one-credit, pass-fail course in reading-study skills; and help with specific problems on a drop-in basis. Faculty members may refer students directly to College Hall, Room 105.

Writing Workshop

The main purpose of the Writing Workshop is to improve the student's writing skills through remedial writing and research papers. Students attend twice a week for the entire semester for tutorial assistance. The Workshop is supervised by an English faculty member, graduate assistants and adjuncts from the English Department. Students may earn three credits upon successfully completing the sessions. The Workshop is also a drop-in center for those having difficulty in writing research papers. It is open Monday through Thursday 9 a.m. to 7 p.m. and on Friday 9 a.m. to 4 p.m. and is located on the second floor of Life Hall.

U.S. Army ROTC

The Army Reserve Officer Training Corps (ROTC) Program offers individual courses in military science in a curriculum designed to qualify students for commissions as officers in the Regular Army or Army Reserves. ROTC is available to full-time college students without regard to academic discipline. Students interested in obtaining U.S. Army commissions through ROTC must meet basic age, physical, academic and citizenship standards.

Classes meet at the Seton Hall University campus in South Orange usually on a once-weekly basis. Scholarships are available on a competitive basis and all ROTC students receive tuition assistance and allowances amounting to \$2500 in the advanced phase of the program.

Specific questions on eligibility and courses should be directed to the Seton Hall Military Science Department at 763-3078.

Air Force ROTC

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for The General Military, Professional Officer courses and Aerospace Studies, taught at NJIT are applicable as free elective credit toward graduation from MSC. For information on the conditions, benefits and procedures of the program, contact the Office of the Vice President for Academic Affairs.

Student Center

The Student Center houses the College Supply Store, Pilgrim State Bank, a mechanical games room, the Candy Store and the Rathskeller on its lower level; and a cafeteria/snack bar, multi-purpose and formal dining room on the main level. The entire third floor is a mezzanine lounge. Student organizations and the Student Center administrators have offices on the fourth floor. A Gulf gas station operates north of the building on Webster Hall Road.

Student Personnel Services

The Student Personnel Office provides guidance in financial aid, part-time employment, housing, veterans' affairs, health, emotional adjustment, leadership training and social adjustment, as well as personal counseling of a general nature.



STUDENT AFFAIRS AND ACTIVITIES

The basic philosophy of the Office of Student Activities is to create opportunities for favorable social development.

The following groups represent the formal structure supporting that philosophy.

Student Government Association, Inc.

The Student Government Association, a one million dollar corporation, is composed of all undergraduate students. Full-time students pay a \$60.00 fee; part-time students pay a fee of \$2.00 per credit hour up to 11 credit hours or \$30.00 for 12 credit hours or more. The SGA provides day care facilities, free legal aid, a drop-in center, pharmacy program and many other services.

The Legislative branch is composed of representatives from each class and major curriculum. The Executive branch consists of the President, Vice-President, Treasurer and Secretary.

College Life Union Board

The College Life Union Board is a Class I organization of the Student Government Association responsible for coordinating all social, cultural, educational and recreational student programs.

All students are members of C.L.U.B. and are invited to join C.L.U.B. committees; Cinema, Lectures, Concerts, Entertainment, Historian, Catacombs, and Travel and Leisure. Other annual C.L.U.B. events include: Homecoming, Spring and Winter Balls, Carnival and the Great Race.

Council on International and National Affairs

C.I.N.A. examines national and international events and issues of vital concern to American life and culture. This is accomplished by lectures, seminars, films, trips and programs for UNICEF. This club is open to all students.

Black Student Cooperative Union

The Black Student Cooperative Union is an organization comprised mainly of Black students. The members of B.S.C.U. are dedicated and willing to help others learn more about the culture of Black people and in helping Black men and women develop pride and awareness in themselves, in their communities, and to continue to strive for success in life.

Human Relations Lab

The Human Relations Lab is dedicated to serving Montclair State students with training sessions in group dynamics and psychological development. An H.R.L. weekend is held twice a year at minimal cost at local camp sites. H.R.L. also holds on-campus seminars and group interaction during the Fall and Spring semesters.

La Campana

The College yearbook, La Campana, serves as a yearly reflection of the campus community and its wide variety of interests and activities.

Latin American Student Organization

This organization exposes the College community to a better understanding and knowledge of Latin American culture, music, art, and literature. Activities include Latin Week, A Night in the Caribbean, dances, and trips.

Montclair Athletic Commission

M.A.C. is a special organization of the S.G.A. M.A.C. operates and coordinates inter-collegiate sport activities at Montclair State College. There are eleven men's sports and ten women's sports. Men's sports include football, basketball, baseball, soccer, lacrosse, fencing, wrestling, tennis, golf, indoor track, cross country and outdoor track. The women's sports are basketball, field hockey, gymnastics, softball, track, swimming, tennis, cheerleading and fencing. The S.G.A. retains control of M.A.C. through the M.A.C. board. It is the policy making body of the department and draws up the athletic budget each year.

Montclarion

The Montclarion is the weekly student newspaper of Montclair State College. The aim of the paper is to keep the campus informed of campus, off-campus, and local events, and news of other Colleges. Students gain journalistic experience in the areas of news, feature and sports writings, copy reading, layout, headlines, typing, photography, circulation and advertising. All undergraduates are eligible for staff positions.

Music and Arts Organization Commission

M.A.O.C. is that division of the Student Government Association which attempts to broaden and enrich the student's life in the area of music and dance.

It brings to the campus a variety of artists and performing groups which represent music from the Baroque period to the 20th century, from electronic music to jazz. Lectures, workshops, and master classes in areas such as composing, performing and listening are also presented.

M.A.O.C. also sponsors the Dance Club, which presents workshops, master classes and concerts to the students at M.S.C. Membership is open to all interested students.

Players

Players is a student theatre organization with every aspect of production supervised by students. Players sponsor theatre trips to New York City and the on-campus presentation of guest artists.

Quarterly

Quarterly is the magazine of literature and art of Montclair State College. Submissions of original literature and art are sought for publication and all undergraduates are invited to join the staff. Quarterly offers an opportunity to express your individuality and to share it with us.

Student Intramural and Leisure Council

S.I.L.C. has the unique distinction of being one of the country's few student controlled intramural programs. The day-to-day programming



offered by S.I.L.C. includes leagues for men and women in football, basketball, softball, volleyball, tennis and bowling. It also sponsors badminton, water polo and pinochle, as well as special events which include a night of roller skating. S.I.L.C. publishes a newsletter throughout the year.

WMSC — 90.3 FM

WMSC is the student owned and operated radio station of Montclair State College. Broadcasting to northeastern New Jersey from 12:00 noon to 1:00 a.m., seven days a week, it specializes in educational news and features and in music and entertainment. Any undergraduate student may become a member of WMSC 90.3 FM.

SCHOOL OF EDUCATIONAL AND COMMUNITY SERVICES

Ercell I. Watson, Ed.D., Dean
Theresa A. Bowman, M.A., Administrative Assistant
Marcella West, M.A., Academic Counselor

The School of Educational and Community Services provides professional educational services to the communities of the nation and particularly to those of northern New Jersey. These services are directed to: individuals seeking admission to the teaching profession; preparation for specialization in education and growth within the profession; public and non-public schools; community agencies; business and industrial organizations. The School is also concerned with the continuing development of the general field of education and with related problems of society.

The role of the School is threefold: (1) to offer these services in an accessible and useful manner, (2) to use the training, experience and expertise of the staff to the best advantage in the performance of services, and (3) to coordinate mutual efforts with other agencies of the College and the community. These objectives are accomplished through instruction, consultation, supervised laboratory experiences and research.

The primary purpose at the undergraduate level is to provide students with the basic professional experiences and learning essential to successful teaching. Professional courses are so designed that students receiving credit for all the required courses in education and psychology, plus a methods course in their major field, meet the requirements for certification in professional education. Students may exceed the minimum educational electives in areas of education which interest them.

The School assists students by:

- (1) helping the prospective teacher take an intelligent and active part in his/her own personal and professional orientation.
- (2) arousing awareness of the teaching profession as an opportunity to apply one's interests and powers to the social good.
- (3) providing for a gradual induction into the profession through a carefully-arranged sequence of education courses, participation as teacher aides in actual high school classes and student teaching.
- (4) offering opportunity for the student to be active in the extracurricular life of the school and in community affairs.
- (5) giving a forward look into the profession as a worthy life-time vocation.

In addition to regular programs, the School designs and implements new approaches to the educational needs of urban/minority/disadvantaged student populations. It has reached out to solve human problems through programs in nearby prisons, public schools, store fronts, street-based schools, community action programs, high school and college level examination equivalency programs and career ladder programs.

Montclair Education Review

Editor In Chief: Dr. Nicholas Michelli
Associate Editor: Dr. Robert B. Williams

The Montclair Education Review is a communications organ articulating the problems and concerns of educators throughout northern New Jersey. Sponsored by the School of Educational and Community Services, the Review directs its attention to superintendents, principals, teachers and other educators operating within the educational structure. The publication is issued at intervals during the academic year.

Manuscripts will be reviewed, providing they are typed double-spaced, no more than five pages in length and properly documented. They should be sent to: The Editor, Montclair Education Review, Montclair State College, Upper Montclair, New Jersey 07043.

STUDENT TEACHING AND EDUCATIONAL PLACEMENT

Through the Office of Student Teaching and Educational Placement, assistance is provided to eligible candidates in securing positions in fields related to education including positions as classroom teachers, administrators, counselors and special education consultants. Services include notification to candidates of positions, preparation and distribution of supporting credentials, arrangements for on- and off-campus job interviews and career counseling. Services are provided gratis.

DEPARTMENT OF ADULT CONTINUING EDUCATION

Associate Professor: Raymond Ast, Chairman

The Department of Adult Continuing Education provides selective and distinctive program services to students, volunteer and para-professional groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey, the nation and the world. In addition to leadership training for adult educators, the Department's program offers direct services to community education development efforts; adult basic education and high school equivalency programs; manpower training development efforts; competency-based staff development for adult educators in New Jersey, resource services to practitioners in community programs for older adults, residential institutes for retired persons as well as a program of liberal studies for retired professionals. The Department also provides services and training programs for industry and institutional employee career mobility, as well as continuing education unit technical assistance services to community agencies and institutions. Montclair State College's GED and CLEP testing center is administered within the Department of Adult Continuing Education.

In addition, the Department is the center for an information network throughout the United States and the world through its National Multimedia Center for Adult Education and its National Adult Education Clearinghouse. These components have been recognized by UNESCO as a member unit of the Worldwide information and Documentation Centers for Adult Education.

The Department, working closely with the Educational Leadership Department of the School of Educational and Community Services and with other Schools of Montclair State College, as well as with selected colleges and universities of the Northeast Region Consortia, offers concentration in adult continuing and community education to the student seeking a master's degree.

Undergraduate level course offering:

A 0807 0460 Curriculum and Instruction in Adult Education

This course is designed to increase undergraduate and graduate students' professional competence as adult educators through the development of knowledge and understanding of current theory and teaching techniques in the field of adult basic education.

DEPARTMENT OF CURRICULUM AND TEACHING

Professors: Flagg

Associate Professors: Michelli, Chairman; Pines

Assistant Professors: Barell, Becker, Boyce, Dispoto, Fages, Uhia, Venturini, Young

Director, Teacher Admissions: Dr. Anne C. Castens

The Department of Curriculum and Teaching has as its primary mission the professional education of public school teachers. In fulfilling this role, most undergraduate courses offered by the Department are taught in the field in Professional Semester Centers. The Department also offers programs and courses at the graduate level for the professional growth of teachers in service.

TEACHER EDUCATION

The teacher education program is an inter-school program involving courses in the student's own school, the School of Educational and Community Services, and other Schools of the College. While admission to the program normally occurs in the sophomore year, prerequisite courses are taken in the freshman or sophomore years. Students are responsible for being familiar with program requirements and for meeting attendant deadlines. Failure to do so may require work beyond the normal four-year program to complete requirements.

PROFESSIONAL SEQUENCE FOR TEACHER EDUCATION CERTIFICATION (All Teacher Education Candidates)

Students cannot register for 0829 courses in the Professional Sequence until admission to teacher education.

Students must allow three semesters, including the semester in which they are admitted, to complete the 0829 portion of the professional sequence.

C 0821 0220	Philosophical Orientation to Education	3 s.h.
7 2001 0200	Educational Psychology*	3 s.h.
	Major Departmental Methods	3 s.h.
B 0829 0410 or B 0829 0412	Field Experience in Education	1 s.h.
B 0808 0407 and	Field Experience in Urban Education	1 s.h.
B 0808 0408	Developmental Reading I & II	6 s.h.
B 0829 0400	Teacher, School, and Society	3 s.h.
B 0829 0401	Senior Field Experience	1 s.h.
B 0829 0402	Seminar in Professional Education	1 s.h.
B 0829 0411	Supervised Student Teaching	8 s.h. 29 s.h.

*Prerequisite—7 2001 0101 Human Growth and Development may be taken as part of the GER program.

Descriptions of Program Stages

I. Decision to Apply for Admission to Teacher Education and Completion of Prerequisite Courses—FRESHMAN/SOPHOMORE YEARS.

All prospective teacher education students are encouraged to undertake experiences and/or courses which will allow them to work with young people of the ages they are considering teaching, to get a better perspective of the profession. Faculty of the Department of Curriculum and Teaching and other faculty of the College are available to discuss students' plans and recommend such experiences and/or courses.

During this stage, students planning to apply for admission to teacher education must satisfy the speech proficiency requirement, by passing a test or completing a speech course. Information regarding this requirement can be secured from the Department of Speech and Theater, major advisors, or faculty in the School of Educational and Community Services.

Beginning with freshmen entering in Fall 1977, C 0821 0220 *Philosophical Orientation to Education* must be taken prior to admission to teacher education. Students also must complete the course 7 2001 0101 *General Psychology I: Growth and Development* in the Department of Psychology as a prerequisite to 7 2001 0200

Educational Psychology. They should consult with their major department advisors to determine any additional requirements specific to their majors.

Sometime early in their programs, students must take a state mandated course in the area of *Human and Intercultural Relations* from a limited list available from school counselors. This course may be credited toward general education electives and may meet the College Human Relations requirement as well.

Failure to have completed the prerequisites at the time of application for the teacher preparation program will delay acceptance into the program which could require an additional semester for the completion of the professional sequence prior to graduation.

II. Admission to Teacher Education—SOPHOMORE YEAR

Admission to the College is not considered to be admission to the teacher education program. Students who wish to enter teacher education should make application prior to the close of the sophomore year. If applications are made later, students may have difficulty in completing the professional sequence before graduation. Three semesters are generally required for completion of the remaining stages.

Criteria for admission to teacher education:

1. Three favorable recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Satisfactory completion of a speech test or recommendation by speech department upon completion of speech course.
3. Evidence of passing Psychology 7 2001 0101 General Psychology I: Growth and Development.
4. Cumulative average of at least 2.45 based on a 4.00 scale. In exceptional cases, an individual may be admitted provisionally, with a cumulative average of less than 2.45 with a statement from a faculty member from his/her major field who is willing to sponsor his/her admission, and if the Screening Committee approves. A cumulative average of 2.45 with no failing grades in the major or in the courses in the professional sequence is required for eligibility for student teaching.
5. Other requirements as indicated by the student's department.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a Screening Committee of three faculty members, with representation from the School of Educational and Community Services and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the School of Educational and Community Services will be assigned. Further information regarding the process of admission to teacher education can be secured from Dr. Anne C. Castens, Coordinator of Teacher Admissions.

III. Preparation and Registration for Student Teaching—SOPHOMORE/JUNIOR YEAR

During this period, students must complete the course 0829 0410 Field Experience in Education. This experience consists of thirty hours in a school at the level the student plans to teach, including work as a teacher's aide, observation of teaching, some instruction of students and other experiences as well as classes on campus. Information regarding this requirement is available from the School of Educational and Community Services advisor assigned at the time of admission to teacher education.

Also during this period, students must take a six credit state mandated reading sequence consisting of D 0808 0407 and D 0808 0408 *Developmental Reading: Principles and Techniques I and II.* In this stage, students must complete requirements for student teaching in their major schools including the methods

course. Also, 7 2001 0200 *Educational Psychology* must be completed prior to the Professional Semester.

Soon after being formally accepted into the teacher education program, the student must register with the Office of Student Teaching and Educational Placement located in the College High School building in order to be placed in a Professional Semester Center in the senior year.

Since it takes a good deal of time to place student teachers in Centers within reasonable commuting distance, and since individual circumstances often enter into placement, it is extremely important that the Student Teaching Office be given enough lead time to secure assignments for each student.

It is suggested that eligible students register with the Office of Student Teaching in January of the academic year prior to the academic year in which they plan to participate in the Professional Semester. In any event, applications for a Fall semester will not be accepted after June 1 of the previous academic year. Applications for a given Spring semester will not be accepted after November 15.

Requirements for assignment to a Professional Semester Center and student teaching are as follows:

1. Admission to Teacher Education
2. Academic standing
 - a. Satisfactory completion of 6 semester hours in English and 6 semester hours in Social Studies of the general education requirements of the College.
 - b. Satisfactory completion of 7 2001 0200 *Educational Psychology*.
 - c. Acceptance by a major department and completion of at least 24 semester hours in a major.
 - d. No grade of "Incomplete" or "F" in required courses.
 - e. Satisfactory completion of the methods course in the major area.
 - f. Satisfactory completion of the Junior Field Experience.
3. Evidence that the student is in good health and free from any disease or physical defect which might interfere with success as a teacher.
4. Clearance by the Student Personnel Division.

IV. The Professional Semester—SENIOR YEAR

The culminating experience in the teacher education program is the Professional Semester, devoted to final preparation and student teaching. For this experience the student is assigned to a Professional Semester Center, a public school which serves as an off-campus center for teacher education. The student teaching experience may take place in the Professional Semester Center school or a nearby school.

While assigned to the Professional Semester Center, the student completes five credits of course work in addition to the eight credits granted for B 0829 0411 *Supervised Student Teaching*. A faculty member of the School of Educational and Community Services is assigned to each Center.

During the first weeks of the Professional Semester, the student begins observing classes and preparing to assume the role of a teacher in the assigned school. At this time, the course B 0829 0400 *Teacher, School and Society* is completed. In this course, which is taught at the Professional Semester Center, the student is asked to examine the nature of education in America and the role of the teacher in the process. As the student begins to assume a larger teaching role in the assigned school and becomes a professional member of the team with the cooperating public school teacher, the course B 0829 0402 *Seminar in Professional Education* begins. It provides a regular opportunity to meet with other student teachers and professional educators to discuss successes and difficulties encountered. Skill sessions which focus on specific common problems will be available as well. Cooperating public school teachers, administrators and supervisors from major departments will be asked to participate in these courses.

Throughout the semester, the student will be completing the course 0829 0401 Senior Field Experience, designed to give a better perception of the place of the assigned school in the community, the place of the assigned school within the total educational continuum, and the nature of the lives of students after school.

Additional information regarding the Professional Semester and other aspects of the teacher education program is available from assigned School of Educational and Community Services advisors or members of the Department of Curriculum and Teaching.

Note: In accordance with the provisions of New Jersey Statute (N.J.S.A.18A:26-A) students must take an examination in physiology and hygiene. The student may have had undergraduate study in areas such as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration. If not, he/she can take such course in lieu of the examination. (The requirement does not apply in art, business education, foreign language, health education, industrial arts, library studies, music or physical education.) The examination can be taken at the office of any County Superintendent of Schools.

Among the graduate and special programs offered by the department are:

1. M.A.T. Program for Hispanics
A Master of Arts in Teaching program designed to assist Spanish-speaking teachers, with instruction in both Spanish and English.
2. Certification Program (Post Baccalaureate)
A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
3. Master of Arts in Teaching
Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on alternative education, are available.

The department also maintains the Curriculum Resource Center under the direction of Mrs. Gertrude T. Greenberg. This library facility houses a collection of instructional materials and courses of study in all subject areas.

Curriculum and Teaching Course Descriptions

B 0829 0400 Teacher, School and Society

An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students. Not for graduate credit. 3 s.h.

B 0829 0401 Senior Field Experience

Part of the Professional Semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. 1 s.h.

Prerequisite: Open only to student teachers.

B 0829 0402 Seminar in Professional Education

Part of the Professional Semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. 1 s.h.

Prerequisite: Open only to student teachers.

B 0829 0410 Field Experience in Education (pre-student teaching)

Thirty hours in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'mini-lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions Office prior to registering for course.

30 hrs.—1 s.h.; 60 hrs.—2 s.h.; 90 hrs.—3 s.h.

B 0829 0411 Supervised Student Teaching

Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of Professional Semester.

8 s.h.

B 0829 0412 Field Work in Urban Education (pre-student teaching)

Similar to B 0829 0410 with emphasis on tutoring and individual conferences in urban public school. Student keeps a log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions Office prior to registering for course.

30 hrs.—1 s.h.; 60 hrs.—2 s.h.; 90 hrs.—3 s.h.

B 0829 0413 Field Work in Community Agencies

Thirty hours of guided experiences in public and private community agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

30 hrs.—1 s.h.; 60 hrs.—2 s.h.; 90 hrs.—3 s.h.

B 0829 0414 In-Service Supervised Teaching I

Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.

4 s.h.

Corequisite: B 0829 0402.

B 0829 0415 In-Service Supervised Teaching II

Continuation of Supervision provided in 0829 0414

4 s.h.

Prerequisite: Permission of department chairperson and the school district.

B 0829 0420 Instructional Innovations

New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

3 s.h.

B 0829 0421 Seminar: Problems of a Classroom Teacher

Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences.

1-3 s.h.

B 0829 0423 Teaching in Urban Schools

Focuses on factors affecting teaching and learning in urban schools. Topics included are the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities. 3 s.h.

B 0829 0425 Curriculum and Instruction for Affective Education

The place of and approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. The student will acquire (a) a familiarity with the theory and practice of curricular design and instruction for affective education, (b) a facility in the application and evaluation thereof, and (c) a capacity for the development of original models. Micro-teaching, simulation, workshops and representative affect classroom procedures will be utilized extensively.

3 s.h.

Prerequisite: 7 2001 0200 Educational Psychology.

B 0829 0430 The Elementary School Curriculum

Characteristics of young learners; the source, nature and function of curriculum goals; types of elementary school administrative organization; the relationship of curricular patterns and classroom procedures; modern subject matter areas. Audio-visual aids, testing, and reporting to parents may be included. Field trips and simulation materials.

3 s.h.

B 0829 0431 Junior High and Middle School Curriculum

Current movements in the programs of intermediate schools. Representative practices and the rationale of the junior high school; innovations in middle schools; developing courses of study or units of work.

3 s.h.

EDUCATIONAL FOUNDATIONS

Professors: Chairman, Haas; Cordasco

Associate Professors: Bernstein, Bredemeier

Assistant Professors: Danzig, Sharp

The Department of Educational Foundations has the dual responsibility of servicing and improving established educational programs while meeting new and critical needs of society thorough philosophic and sociological theory, comparative study, and administration of new innovative programs. In keeping with these professional responsibilities, the department offers undergraduate and graduate foundations courses for the preparation of public school educators and, at the same time, tries to satisfy specialized demands beyond the limits of the public schools through alternative graduate programs and undergraduate electives. The department offers an MAT in Alternate and Community Education which permits qualified college graduates teaching in non-public school situations to earn a secondary school teaching certificate while matriculating for a Master's degree.

**Educational Foundations
Course Descriptions**

C 0821 0220 Philosophical Orientation to Education

To prepare the initiate to the profession of education for his/her future placement in the public schools via current philosophical movements and historical perspectives. The course will consider ideological and cultural variables as they relate to assumptions upon which the school system in America depends, as well as alternate philosophical bases which might generate a more educationally sound process. 3 s.h.

C 0821 0264 Sexism in American Education

Designed to analyze sexism in the American schools; its scope and its effects. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3 s.h.

C 0821 0420 Philosophic Foundations in Education

A study of Western philosophic assumptions, beliefs and values as related to educational goals and practices.

3 s.h.

C 0821 0440 Sociological Foundations of Education

Teaching and learning in the context of other social factors; social and cultural influences on teachers and learners and their transactions; the relationship of culture, role and personality; the school as a changing social system.

3 s.h.

C 0821 0441 Urban Politics and Education

The politics of confrontation; the school system as a political institution. Force fields and their influence upon the teacher, school and community; political orientations and experiences of various ethnic groups; the influence of political pressures on urban schools from city or higher levels.

3 s.h.

C 0821 0445 Puerto Rican Children in Mainland Schools

An introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration; the Puerto Rican family; Puerto Rican life-styles, cultural identity, cultural pluralism; learning needs; and evolving programs. Includes visits to schools.

C 0821 0460 Comparative Education

The meaning of comparative education; differences between educational systems in developed and developing societies; developed areas such as Western and Central Europe developing areas such as Latin America and tropical Africa. 3 s.h.

C 0821 0463 Women and Education in Modern Western Society

The role and education of women in particular types of societies are considered, with considerable attention given to the U.S., France, and Latin America. At all time, an effort is made to relate the educational situation of women to their social conditions. Gives attention to the education of working class, bourgeois, and aristocratic women. 3 s.h.

DEPARTMENT OF EDUCATIONAL LEADERSHIP

Professors: Castens, Chairman; Bellagamba, Heiss, Lang, Merlo, Watson

Associate Professors: Brunner, Cuff, Oxman, Rust, Schantz, Weischadle,

Assistant Professors: Dutka, Johnston

Instructor: Stone

The Department of Educational Leadership comprises four educational specialties teams: Administration and Supervision, Educational Research and Evaluation, Reading, and Technology in Education. The programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. Course work and field experience in schools and/or other community agencies make up each individual program. The graduate programs in this department prepare students for positions as:

1. major administrative or supervisory personnel at all levels of educational systems
2. educational consultants
3. educational researchers
4. educational managers and planners in the media fields
5. managers of emerging educational programs in business and government

Administration and Supervision Team

Team Leader: Dr. Anne C. Castens

The Team of Administration and Supervision working with other departments of the College and the School of Educational and Community Services prepares educational leaders. Its programs are limited to graduate study leading to the M.A. in Administration and/or Supervision and to post M.A. studies. Although programs are directed toward certification as Supervisor, Principal, School Administrator or Business Administrator, a comprehensive study of the field of educational leadership is encouraged.

Courses in certification programs are open to those holding the M.A. degree in a subject area and desiring certification as supervisors either in that subject area or in other supervisory or administrative positions.

See Graduate Catalog for Administration and Supervision course descriptions.

Educational Research and Evaluation Team

Team Leader: Dr. Gerhard Lang

This program:

1. trains educational research and evaluation specialists needed by pre-

school centers, school systems, colleges and universities, research and development centers, regional educational laboratories, industry, private research agencies and the city, state and federal research bureaus.

2. broadens the professional education of students enrolled in various degree programs by offering courses designed to make them literate initiators and users of educational research and evaluation studies.

Educational Research Course Descriptions

D 0824 0410 Assessment of Young Children: Evaluation of Cognitive Progress Principles and Practices of Assessing Young Children

Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Use of tests in understanding children's developmental patterns, in the diagnosis of learning difficulties, in the determination of readiness, and in the evaluation of remedial and other special programs will be studied. Course content and requirements will be geared to individual needs of students.

D 0824 0491 Educational Tests and Measurements

Goal setting, evaluation and improving instruction; identifying and translating goals into behavioral objectives; constructing tests; standardized tests and other devices for measuring and evaluating achievement, intelligence, aptitudes and personal social relationships; basic statistical measures; organizing and interpreting test data; marking and reporting pupil progress.

Reading Team

Team Leader: Dr. Maria Schantz

The Reading Program is concerned with the preparation of competent leadership for a variety of functions related to the needs of children, youth and adults. Wide demands exist for teachers, supervisors, consultants, and administrators capable of developing, implementing, maintaining and improving programs in developmental, corrective and remedial reading. The program provides students with backgrounds necessary for these specializations.

A Master of Arts degree with a Reading Specialization Certificate, a certification program for Reading Specialists, an undergraduate minor program, six (6) semester hours D 0808 0407, Developmental Reading Part I, D 0808 0408, Developmental Reading Part II to meet the Teacher Education certification requirements, and a personal reading improvement course are available. A student enrolled in the Reading minor gains field experience by working first as a Reading Aide in a public elementary school, next as a college tutor in the Reading and Study Skills Center, and finally as a "cadet-diagnostician" in the Diagnostic Clinic. The Minor consists of 24 semester hours.

College students may take a personal reading improvement program for optional credit, as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for school-age children and for adults.

Minor in Reading

The course sequence in Reading will be coordinated within the course sequence in the candidate's major program. A minimum of 24 credits will be required for the completion of the minor.

The minor program consists of the courses listed below. Education 0400 is a prerequisite to the remaining reading courses:

		semester hours
D 0808 0400	Foundations of Reading Instruction*	3
D 0808 0402	Survey of Reading Methods in Secondary School Subjects.	3
D 0808 0403	Practicum in Reading and the Improvement of Study Skills	3
D 0808 0404	Diagnosis and Treatment of Reading Problems	3

7 2001 0320	Psychology and Education of the Handicapped (Department prerequisite)	3
Nine credits must be selected with the advisor's approval from the following:		
I 1506 0465	Introduction to Phonetics	3
2 1220 0209	Voice and Articulation Disorders	3
7 2001 0335	Social Psychology	3
D 0824 0491	Measurement and Evaluation in Teaching and Learning	3
D 0808 0301	Tutoring and Small Group Instruction.....	2 or 3
N 1508 0403	Methods and Materials of Teaching English as a Second Language ..	3
D 0841 0400	Selection and Utilization of Educational Media.....	3
D 0841 0440	Television in Education Workshop: Programming and Production....	3
E 1601 0403	Reading Materials for Children and Youth.....	4
X 1301 0319	Language and Literature for Young Children.....	3
I 1007 0360	Creative Dramatics.....	3
REQUIRED TOTAL		24

*Prerequisite for all Reading Courses.

For any information regarding the minor, contact the Reading and Study Center, College Hall Room 105, or call 893-4247.

Another component of this department is the Student Personnel Services Resource Center. It is a library facility which has printed materials on the three specializations described above.

Reading Course Descriptions

D 0808 0400 Foundations of Reading Instruction

Sequential development of reading skills; methods and materials in elementary reading programs; increasing the power of teacher and learner. How reading begins and is reinforced. Tutoring in nearby elementary schools is required. Prerequisite for all reading courses. 3 s.h.

D 0808 0402 Survey of Reading Methods in Secondary Subjects

The role of good reading in academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum. 3 s.h.

D 0808 0403 Practicum in Reading and the Improvement of Study Skills

Recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration; taking and organizing reading notes and the reading of homework assignments. Students tutor collegians in these areas. 3 s.h.

D 0808 0404 Diagnosis and Treatment of Secondary School Reading Problems

Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology. An on-going student diagnosis of a school-age child is required. 3 s.h.

D 0808 0405 College Reading and Study Improvement Laboratory

Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content. Students may volunteer or be recommended by a faculty member. Optional 1 s.h.

D 0808 0407 Developmental Reading: Principles and Techniques, Part I

Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus on developing those skills, understandings and competencies in the nature of the reading process, in specific word recognition and comprehension strategies, and in classroom diagnostic techniques. 3 s.h.

D 0808 0408 Developmental Reading: Principles and Techniques, Part II

Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies. 3 s.h.

Prerequisite: D 0808 0407

Media and Technology in Education

Team Leader: Dr. Grosvenor Rust

The courses offered here provide for two significant goals in the utilization of informational media: (1) The certification of persons responsible for administration and development of media in the curriculum of a single school; (2) competent utilization of media in the learning process. Courses taken for this goal are elected at will by the student and may constitute a minor equivalency by special arrangement.

Students desiring certification as an Associate Educational Media Specialist must follow the State of New Jersey approved program of study as shown herein. Any variations from this sequence must be submitted to the team leader and official advisor for approval.

The department also offers graduate students the opportunity to prepare for administrative and supervisory roles in educational media at the community and district levels. A program of approved graduate courses leading to certification as an Educational Media Specialist is shown in the Montclair State College Graduate Catalog.

For further information about courses and programs call or write: Media and Technology in Education, Dr. Grosvenor Rust, College Hall Room 118; Phone 893-4239, Ms. Elsie Gibson - Library - 893-4191.

Associate Media Certificate

- A. 1. A bachelor's degree from an accredited college.
2. A standard New Jersey teacher's certificate.
- B. Satisfactory completion of not fewer than twenty-one semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor.)

1. Prerequisites

To be determined by departmental advisement in reference to any deficiencies made apparent by N.J. Standards for Performance of educational media services for public schools under the supervision of a qualified supervisor.

		semester hour
2.	Specialization in Media and Technology	2
D 0841 0400	Selection and Utilization of Educational Media	3
E 1601 0401	Fundamentals of Cataloging and Classifying Educational Resources	3
E 1601 0402	Reference and Bibliography for School Resource Centers	3
E 1601 0403	Reading Materials for Children and Youth	3
E 1601 0404	Organization and Administration of a School Media Center.....	3
D 0841 0420	Teaching Materials Workshop	3
D 0841 0445	Audio Production in Education.....	3

Electives:

D 0841 0430 Television Services in a Single School Media Program (may be substituted for 0841 0445 above).....	3
--	---

Field experience is required.* A normal field experience represents 50 hours of supervised media center service. (It is usually connected with the practice teaching component of the major certification field)

NOTE: Special advisement for certain courses from the graduate level media program will be made for those having a bachelor's degree when they enroll in the above program.

*Field Experiences may be waived if candidate already holds a media-librarian position, or has had important general responsibilities in a school media center, and duties and competence in all media are certified by the employing Superintendent, with the approval of advisor.

Media and Technology Course Descriptions

(Petition for Graduate Credit must be made when applicable,
subject to established limits)

D 0841 0400 Selection and Utilization of Educational Media

Develops competency with educational media in classroom presentations. Production of simple, teacher-made materials; selection and utilization of materials and equipment; and proficiency in basic media technology and evaluation. 3 s.h.

E 1601 0401 Fundamentals of Cataloging and Classifying Educational Resources

Develops competency in cataloging and classifying print and non-print media. Cataloging systems are examined and applied to school media centers and programs. Laboratory experience is emphasized. 3 s.h.

E 1601 0402 Reference and Bibliography for School Resource Centers

Examination and study of basic reference sources for use in school media centers. Training in reference procedures and practices emphasized. Skill with reference works, specialized media indexes and the catalog is stressed. 3 s.h.

E 1601 0403 Reading Materials for Children and Youth: Selection and Evaluation

A study and evaluation of print materials found in school media centers. Extensive critical reading of print media for youth and children. Principles of selection and experience in the use of selection tools. Oriented toward the media collection relationship to the total school program. 3 s.h.

D 0841 0404 Organization and Administration of a School Media Center

Practical experience in the operation of the school media center. Procedures for locating materials, purchasing materials, print and non-print processing, preparation of media center operation reports, inventory, planning and adapting room space, storing and circulating equipment and evaluation of collections and services. 3 s.h.

D 0841 0420 Teaching Materials Workshop

Initial problems in creation of media resources. Simple design experiences in development of materials production. Individually oriented to projects and subject areas of each student. Strong emphasis on budget conscious improvisation for classroom teachers. 3 s.h.

D 0841 0430 Television Services in a Single School Media Program

Provides an opportunity to develop competency in the operation of a simple single building television facility. Emphasis is placed on laboratory experience with the television equipment commonly in use in single building media centers. Portable and classroom utilization practices are emphasized. 3 s.h.

D 0841 0445 Audio Production in Education

Skill in producing audio materials for learning laboratories, film sound, and a variety of synchronized image-sound presentation and techniques. Proficiency in the design of audio materials and competency with duplicating, pulsing, recording and synchronizing devices.

3 s.h.

**DEPARTMENT OF COUNSELING, HUMAN SERVICES
AND GUIDANCE**

Professors: Gelfond, Gorman, Gregg, King, Williams

Associate Professors: Grey, Chairman; Hamel, Talley

Assistant Professors: Millard, Mills, Tetens

Instructor: Unger-King

The Department offers a Master of Arts degree with opportunities to concentrate in one of three separate fields:

1. Guidance and Counseling

The traditional offerings of the department have been directed toward the preparation of school guidance counselors. Because certification in this area requires one year of teaching experience, this part of the program is usually considered in-service (while teaching). More and more students are enrolling directly from undergraduate schools with plans to enter the counseling field in higher education or non-school agencies where certification is not a requirement. Seniors may take, with permission, some of the offerings for undergraduate or graduate credit. See the Graduate Catalog for course descriptions.

2. Human Organizational Processes (HOP)

HOP is widely known to Montclair students. It provides the student with ample opportunity to explore, early in undergraduate years, awareness and understanding of self especially in relation to others. The content prompts many students to evaluate them as "the most personally helpful courses I've ever taken." The HOP specialization prepares students for a variety of career fields in counseling, personnel work, and group leadership (with additional professional training). See the Undergraduate course offerings listed below.

3. School Social Worker

Formerly known as the "visiting teacher," the school social worker is a professionally-prepared helper whose basic responsibilities are helping client-students in the resolution of problems between the school and the outside environment including the home. The school social worker is a member of the child study team in most school districts and develops the out-of-school, background data on students who become the concern of the team. Certification as a school social worker requires either teaching or social work experience in addition to specific courses. "The Role of the School Social Worker" is a course that undergraduates might want to consider for a closer look at this field.

Another component of this department is the Counseling, Human Services and Guidance Resource Center. It is a library facility which has printed materials on the three specializations described above.

**Counseling, Human Services and Guidance
Course Descriptions**

F 0842 0327 Experiment in Coeducational Community Living

The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance

community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience. 3 s.h.

Prerequisite: Must be an upper classman.

F 0842 0420 Achievement Motivation Development Project

Stimulates achievement behavior on the part of the student participants in simulated experiences. Participants will be constantly required to set goals, make decisions and assume personal responsibility. 2 s.h.

F 0842 0430 Interaction Analysis

Objectifying observable one-to-one, or plural, interactive experiences. Analysis through the use of audio tapes, video tapes and the observation of experiences. 3 s.h.

F 0842 0431 Individual and Group Dynamics

Self-understanding and effective human relationships for teachers, administrators and supervisors. Individual behavior in learning groups and supervisory conferences; insight into the effects of one's behavior on others. 3 s.h.

F 0842 0432 Personal Values

Exploration of one's own values, their origins and alternatives.

3 s.h.

F 0826 0482 Career Consciousness

A course in "career skills" that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to define yourself and relate that information to the vocation you choose to pursue in life; to facilitate your successful "exit" from college into the real world. Each student will be required to look at him/herself through functional self-analysis, write a resume, and investigate the job market in his particular field through field trips, job interviews, or readings in the field. 3 s.h.

Prerequisite: Residency in Freeman Hall during semester when taking course—Upperclassmen.

Note: There are no prerequisites when offered in the Department of Student Personnel Services.



SCHOOL OF FINE AND PERFORMING ARTS

Donald M. Mintz, PhD., Dean
Laura Woodson-Hammond, M.A., Academic Advisor

The School of Fine and Performing Arts consists of the departments of Fine Arts, Music, and Speech and Theater. Each offers preparation for careers in its disciplines in public school teaching and in public service and managerial professions associated with the arts. Since the School believes that the arts are an essential part of a full life, it offers a substantial number of non-technical courses open to all. Separately and together, the departments offer courses that recognize significant contemporary developments: the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency to blur the boundaries between conventional artistic disciplines and the serious challenges to traditional notions of what art is.

Departmental programs take account of the demands of the artistic disciplines and insure that graduates will be technically competent in their chosen fields. Nevertheless, concentrations and course sequences are flexible.

The School's facilities include two modern theaters, a recital hall, two music rehearsal halls, a theater-arts workshop, television and audio facilities and numerous arts laboratories, practice rooms and studios.

Because Montclair is close to New York City, students are able to take advantage of the city's unrivaled cultural and artistic resources.

Since disciplinary needs and departmental preferences vary, students should consult with a member of the faculty of the department in which they will major, before registering for School Core courses. The rate at which these requirements can be satisfied depends upon the demands of each discipline. Details may be found in the departmental listings.

Students who plan to teach in the public schools must meet requirements set by the State Board of Examiners for teacher certification. These requirements may differ from the School's in a number of particulars.



DEPARTMENT OF FINE ARTS

Professors: Kampf, Martens, Chairman; McCreath, Vernacchia

Associate Professors: Barnet, Chapman, Mohammed, Ross, Schiebel

Assistant Professors: Barris, deLeeuw, Kahn, Kyle, Lay,

Schlossman, Silver, Siporin, Watkins, Westfall

Instructors: Adams, Carter, Cicero, Czernowicz, Glashausser, Goldring, Hilton, O'Connell, St. Clair, Scheinman, Schnitzer, Viner, Walsh, Winter

The Department of Fine Arts offers five major concentrations and is open to majors in other fields for humanities or free electives.

The following Basic Core is required of majors in all Fine Arts Department programs except Art History:

	semester hours
G 1001 0101, 0102 Design, I, II	3 ea.
One course from each of the following groups:	
a. G 1003 0215 Ancient Art	3
G 1003 0328 A Survey of Greek Art	3
G 1003 0332 The Ancient Art of Europe	3
G 1003 0485 Ancient Art in Italy: Etruscan	3
b. G 1003 0216 Renaissance Art in Italy: 15th Century	3
G 1003 0322 Early Christian and Byzantine Art	3
G 1003 0323 Medieval Art	3
G 1003 0452 Renaissance Art in Italy, 16th Century	3
G 1003 0324 Northern Renaissance Painting	3
c. G 1003 0450 Modern Architecture	3
G 1003 0451 Contemporary Art	3
G 1003 0459 Art of the 18th Century	3
G 1003 0460 19th Century American Architecture	3
G 1003 0461 19th Century American Painting	3
G 1003 0469 The Art of the 20th Century	3

Requirements for the five art major programs are as follows:

- A. **Studio in Painting, Sculpture, Graphics, Photography, Cinematography:** a liberal arts program for students who desire professional preparation as artists.

	semester hours
I. Basic Core Requirements	15
II. Required: 22 hours from medium of choice and related areas	
Example: Recommended for a Concentration in photography:	
G 1011 0213, 0214, 0310, Introduction to Photography: A Contemporary Art Form, Intermediate Photography: A Contemporary Art Form, Advanced Photography: A Contemporary Art Form	9
G 1003 0484 History of Photography	3
G 1001 0468 Internship & Field Experience I	3
G 4921 0470 Independent Study in Multi-Image Media	4
Selected art electives	3
REQUIRED TOTAL	
	37

- B. **Studio in Crafts:** liberal arts program for students who desire professional preparation as craftsmen.

	semester hours
I. Basic Core Requirements	15
II. Required: 22 hours from medium of choice and related areas	
Example: Recommended for a Concentration in Ceramics	
G 1090 0202, 0203, Ceramic: Pottery and Sculpture I, II, III, IV	12
G 1090 0412 Independent Study in Ceramics	3

G 1001 0465 Externship & Field Experience	4
Selected art electives	3
REQUIRED TOTAL	37

C. **Art History:** Exploring the art of past civilizations and cultures to contemporary art forms.

	semester hours
I. Basic Core Requirements.....	6
G 1001 0101, 0102 Design, I, II.....	3 ea.
II. Program Requirements	
G 1003 0215 Ancient Art	3
G 1003 0463 Resources & Methods of Research in the Arts	3
G 1003 0462 Senior Seminar	3
6 semester hours from the following:	
G 1003 0323 Medieval Art	3
G 1003 0216 Renaissance Art in Italy: 15th Century	3
G 1003 0324 Northern Renaissance Painting	3
G 1003 0325 17th and 18th Century Art	3
6 semester hours from the following:	
G 1003 0457 Primitive Art	3
G 4922 0487 Afro-American Art.....	3
G 1003 0328 Survey of Greek Art	3
III. Art History Electives	6
REQUIRED TOTAL	33

D. **Studies in the Visual Arts:** For the student seeking an understanding and an appreciation of the arts and of the creative process.

I. Basic Core Requirements.....	15
II. Program Requirements	
G 1003 0463 Resources & Methods of Research in the Arts	3
G 1003 0462 Senior Seminar	3
G 1003 0456 Modern Philosophies of Art.....	3
4 semester hours from studio courses	4
12 semester hours from three of the following groups:	
a. History of Art including	
G 1010 0220 History of the Cinema as Art	3
G 1090 0303 History of Textiles	3
G 1011 0484 History of Photography	3
G 4921 0464 History of the Print	3
b. Society and the Arts	
G 4922 0478 Art in Public Places	3
G 4922 0340 Selected Problems in Urban Cultural Dev.	3
G 4922 0341 History of City Form	3
G 2208 0231 Social Bases of the Arts	3
G 2208 0307 The City and the Arts	3
G 2208 0332 Sociology of Popular Arts	3
c. Art Criticism	
G 1003 0326 The Critical Approach	3
G 1003 0451 Critical Views of Contemporary Art	3
Selected Art Electives	
REQUIRED TOTAL	40

E. **Fine Arts Education:** For those who wish to teach art, Certification is for Grades K through 12.

	semester hours
Students must complete the Professional Sequence of 23 s.h.	
I. Basic Core Requirements.....	15
II. Art Education Requirement	

G 1001 0300	Foundations of Methods and Curriculum in Art Education: K-12.....	3
III. Art Requirements:		
G 1090 0202	Ceramics: Pottery & Sculpture I	3
G 1001 0107	Drawing I.....	2
G 1001 0209	Theater Arts I.....	2
G 1090 0318	Metalwork & Jewelry I	2
G 1011 0213	Introduction to Photography: A Contemporary Art Form	2
G 1002 0200	Painting I.....	2
G 1001 0312	Communications Design I.....	2
G 4921 0314	Printmaking I.....	2
G 1002 0244	Sculpture I or 0245, 0246, 0247, or 0248	2
IV. Art Electives.....		13
	REQUIRED TOTAL	50

F. Multi Image Media (Service Courses)

	semester hours
G 1010 0400 History of the Cinema as Art I	3
G 1010 0218, 0219, 0339, 0499 Filmmaking I, II, III, IV	3 ea.
G 1010 0472, 0473 Projects in Filmmaking I, II	3 ea.
G 1002 0449 Art and Technology	2
G 1010 0221, 0222, 0336, 0474 Television as an Art Form I, II, III, IV	3 ea.
G 1010 0475, 0476 Projects in Television I, II	2 ea.
G 4903 0196 The Film	3
G 4903 1299 Literature and Art in Western Culture	2
G 1505 0474 Modern Drama on Film	3
G 4903 0296 The Contemporary Film	3

Urban Cultural Development and Design (Service courses)

G 4922 0337 Explorations in Contemporary uses of Art.....	2
G 4922 0223, 0224, 0338, 0477 Shelter Form as Art I, II, III, IV	3 ea.
G 4922 0351, 0352, 0481, 0482 Community Form as Art I, II, III, IV	3 ea.
G 4922 0478 Art in Public Places	3
G 4922 0340 Selected Problems in Urban Cultural Development	3
G 4922 0479 Independent Investigation in Urban Cultural Development	2-8
G 4922 0480 Urban Arts Program Planning	3
G 4922 0341 History of City Form	3
G 4922 0490 Field Problems in Urban Cultural Development	3
G 4922 0487 Afro-American Art	3
G 1015 0351 Music in Urban Society	3
G 1015 0339 Music in Modern Society	3
G 4922 0310 Theater in the Urban Environment	3
G 2208 0307 The City and the Arts	3
G 2208 0333 Community Organization in the Arts	3
G 2208 0332 Sociology of Popular Arts	3
G 2208 0231 Social Bases of the Arts	3
G 2208 0300 Externship in Society	3
G 2208 0410 Social Action Practicum	3
G 2208 0409 Selected Problems in Sociology	3
G 2208 0462 Peoples and Cities	3

INTERDEPARTMENTAL AND INTERDISCIPLINARY STUDIES

Over the past few years the three departments of the School have developed programs to facilitate interchange among them. They have also joined with other Schools to design concentrations offering preparation for careers in areas associated with the arts (such as arts management) or careers involving novel ways of viewing the arts and their role in society. In some programs, off-campus work is emphasized.

Four such concentrations are available:

- | | |
|----------------------|--|
| 1. Dance-Theater | 3. Urban Cultural Development and Design |
| 2. Multi-Image Media | 4. Arts Management |

Under the College's Alternative Curriculum Plan, students are free to design interdisciplinary programs for themselves; they are not required to pursue the programs already devised by the School. Indeed, it is expected that their efforts will yield further programs that others may wish to follow.

A student in an interdisciplinary program selects a major concentration from among those offered by the three departments and fulfills the minimum requirement for the Bachelor of Arts in that concentration. He/she also chooses a pattern of courses and off-campus work designed to meet his/her particular artistic objective.

Such programs should have a sound rationale; they must be internally coherent and intellectually and professionally defensible. Newly-devised programs must be approved by the academic advisor and by faculty members in the departments most concerned.

Non-traditional programs require closer cooperation among students, faculty members and academic advisors than do conventional courses of study. Faculty members have filed model programs in a number of different areas with the School's academic advisor, who can direct students to faculty members for further discussion.

The model for Urban Cultural Development, for instance, emphasizes School courses dealing with the social bases in the arts. This program furnishes preprofessional education for careers in public arts administration, leisure-recreation program planning, community and urban design and many other areas.

Fine Arts Course Descriptions

G 0831 0114 Creativity Awareness

A foundation course in the fundamental awareness which underlies all artistic endeavors. Releasing creative blocks and inhibitions through exercises and assignments to stimulate the imagination and awaken the core creative self. 3 s.h.

G 0831 0200 Creative Use of Media for Art Education

The development of creative effects through the use of audio-visual equipment by the exploration of ways and means suitable to the visual arts area. Art films, slides, two and three-dimensional materials, light and sound techniques. 3 s.h.

G 0831 0300 Foundations of Methods and Curriculum in Art Education: K-12

Behavioral and visual development of the child in plastic and graphic media materials, facilities and equipment and their sources; the organization and presentation of art experiences; curriculum construction based on art as a visual response to life. For Fine Arts Education majors this course must be taken simultaneously with Teacher School and Society in the Spring of the Junior year. 3 s.h.

Prerequisites: General Psychology - Human-Growth and Development, 7 200 0101 Educational Psychology, 7 2001 0200, Teacher Assists Program (For Fine Arts Majors only).

G 0831 0305 The Urban Art Teacher

A practical analysis of the role of the art teacher in a public school setting, urban and inner-city. Environment, facilities, equipment, supplies and professional interaction.

2 s.h.

G 0831 0310 Group Art Therapy and Creativity Development

An undergraduate course providing insight into self-behavior. Through student participation, a deepening appreciation of the creative process, understanding of self and the relationship between art and psychology. 3 s.h.

G 0831 0410 Introduction to Art Therapy and Creativity Development

Art Media are used to create actual forms that express feeling-thinking patterns. Discussion is aimed at recognizing how art forms reflect assumptions, attitudes and choices. A variety of modalities used in processing personal symbolism, fantasy and dreams. 3 s.h.

G 0831 0411 Light and Sound Forms For Use in Art Education

An advanced course in light and sound forms emphasizing the creative use of media for performance. Sources and competencies related to the K-12 art curriculum as a humanities resource, will be studied. 3 s.h.

Prerequisite: G 0841 0400, or instructor's permission.

G 1001 0100 Introduction to the Visual Arts

The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, print making, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors. 3 s.h.

G1001 1001, 0102 Design I, II

Required of all art majors. Foundations of visual organization, structured to develop the visual and verbal vocabulary, through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line, color, plane, texture, form, shape and time as basic elements in all art forms. Two- and three-dimensional concepts introduced through a variety of materials and processes. Reading assignments, museum and gallery visits. 3 s.h.

G 1001 0400, 0401, 0402, 0403 Independent Study in Design I, II, III, IV

Topics for investigation selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

G 1001 0107, 0108, 0207, 0208 Drawing I, II, III, IV

Basic elements of line, point, shape, figure ground, and space relationships. 2 s.h. ea.

Prerequisites: Taken serially and with instructor's approval

G 1001 0404, 0405, 0406, 0407 Independent Study in Drawing I, II, III, IV

Topics for investigation selected with the approval of the instructor. 3. s.h. ea.

Prerequisites: Taken serially and with instructor's approval

G 1001 0103, 0104, 0339, 0486 Visual Arts Studio I, II, III, IV

For students of limited experience; the art forms (painting, sculpture, drawing, crafts) experienced through exploration of natural, found and manufactured materials. Creative experiences in studio work; relating art to the student's primary area of knowledge; the part art experience can play in his life. For non-art majors. 3. s.h. ea.

Prerequisites: Taken serially and with instructor's approval

G 1001 0114 Sources: An Exploration of the Creative process

A foundation course in the fundamental awareness which underlies all artistic endeavors, (art, music, drama, poetry, literature). It focuses on releasing the creative blocks and inhibitions through exercises and assignments to stimulate the imagination and awaken the core creative self. 3 s.h.

G 1001 0115 Techniques For Increased Perception

A series of exercises designed to increase a student's perception through intense observation. The resulting insights will be developed into a personal form of self expression. Emphasis is on the process of art rather than the product. 3 s.h.

G 1001 0201 Color Studies I

A study of color and its interaction through problems in color relatedness, systems and theories. An extensive and personal exploration of color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions, reading assignments, museum and gallery visits. 3 s.h.
Prerequisites: G 1001 0101 and G 1001 0102 or permission of instructor.

G 1001 0301 Color Studies II

Continuation of Color Studies I. 3 s.h.
Prerequisite: G 1001 0201.

G 1001 0209, 0210, 0306, 0307 Theater Arts I, II, III, IV

Visual art aspects of the theater with emphasis on techniques of group planning; scenery design and preparation, lighting, special effects, sound, slides, film dance, puppets and marionettes. 2 s.h. ea.
Prerequisites: Taken serially, and with instructor's approval.

G 1001 0420 Independent Study in Theater Arts

Topics for investigation are selected with the approval of the instructor. 3 s.h.
Prerequisite: Instructor's approval.

G 1001 0312, 0313 Communications Design I, II

The machines, tools, materials, techniques and methods of commercial art; lettering, type layout, advertising design and illustration, layouts and paste-ups, reproduction techniques, poster making. 2 s.h. ea.
Prerequisite: Taken serially

G 1001 0320, 0321, 0441, 0442 Life Drawing I, II, III, IV

The structure and proportions of the human form; expressive drawing is emphasized. 2 s.h. ea.
Prerequisites: Taken serially.

G 1001 0443, 0444 Independent Study in Life Drawing I, II

Topics for investigation are selected with approval of the instructor. 3 s.h. ea.
Prerequisites: Taken serially and with consent of the instructor.

G 1001 0445, 0446 Multi-Media I, II

Group work to create a multi-media environment and to perform a multi-media mix; creation of the theatrical, architectural, sculptural and technological props and the program for the mix; the psychology of a total art experience. 2 s.h. ea.
Prerequisite: Taken serially.

G 1001 0448 Critique in Art

Discussions of their work by students from various studio areas; visiting artists will occasionally join. For fine art majors of advanced standing. 1 s.h.
Prerequisite: Consent of the instructor.

G 1001 0465, 0466, 0467, 0468 Externships and Field Experience I, II, III, IV

Involvement beyond the campus in a museum, art institution or industry; participation in inner city arts programs or study with an independent artist or craftsman. 2-8 s.h. ea.
Prerequisites: Taken serially and with coordinator's approval.

G 1002 0200, 0201, 0316, 0317 Painting I, II, III, IV

Works in the many media and with the many forms; readings in the development of painting from the Impressionists to today; gallery and museum visits. 2 s.h. ea.
Prerequisites: Taken serially.

G 1002 0408, 0409, 0410, 0411 Independent Study in Painting I, II, III, IV

Topics for investigation are selected with the approval of the instructor.
Prerequisites: Taken serially and with consent of instructor.

3 s.h. ea.

G 1002 0361 Figurative Painting

To sharpen skills in rendering the human figure and express creative insights into figurative painting.

2 s.h.

Prerequisite: G 1001 0320 and G 1002 0200, or permission of instructor.

G 1002 0211, 0212, 0308, 0309 Sculpture I, II, III, IV

Various sculptural concepts using materials like plaster, metal, plastics, stone and wood; gallery and museum visits.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0244, 0254, 0344, 0488 Sculpture: Modeling & Casting I, II, III, IV

Forming by the additive process using one or more mold-making techniques; clay, plaster, cement and plastics. Further modeling and casting processes investigated according to the student's needs. Museum visits and reading assignments.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0245, 0255, 0345, 0495 Sculpture: Carving I, II, III, IV

Sculpture formed by the subtractive process of carving in wood and/or stone primarily. Techniques of sharpening, making and maintaining tools. Museum visits and reading assignments.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0246, 0256, 0346, 0496 Sculpture: Metal Casting I, II, III, IV

Basic technology of metal casting in the lost wax process; experimentation with the various materials related to the casting process; modeling, spruing and venting, investment of the model, burn-out of the mold, pouring the metal, cleaning, chasing and finishing the metal cast. Museum visits and reading assignments.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0247, 0257, 0347, 0497 Sculpture: Fabrication I, II, III, IV

Sculpture formed by constructive methods; form and space relationships. A professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Size of finished work will be no less than one cubic yard and no larger than the metropolitan area. Museum visits and reading assignments.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0248, 0258, 0348, 0498 Sculpture: Welding/Brazing I, II, III, IV

Sculpture in metal realized through welding, brazing and soldering. Various metals used in a variety of processes enable the student to develop three-dimensional works. Museum visits and reading assignments.

2 s.h. ea.

Prerequisites: Taken serially.

G 1002 0421, 0422, 0423, 0424 Independent Study in Sculpture I, II, III, IV

Topics for investigation are selected with the approval of the instructor.

3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval.

G 1002 0215 Art Forum

An opportunity for students to meet a series of internationally-known critics, museum directors and artists in lecture presentations. May be repeated for credit.

2 s.h.

1002 0447 Landscape Painting

Interpretation of landscape as a unique source of pictorial ideas; the history of landscape painting.

2 s.h.

G 1002 0449 Art and Technology

Innovative techniques in design, painting and sculpture involving new media; simple technology methods that can be readily employed in search of new forms. 2 s.h.

G 1003 0105, 0106 Art and Civilization I, II

The history of art from its beginnings to the present; museum visits and extensive reading. Required for fine arts majors. 3 s.h. ea.

Prerequisites: Taken serially.

G 1003 0215 Ancient Art

The origins of man's art and the civilizations of the ancient world; Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations. 3 s.h.

G 1003 0216 Renaissance Art in Italy: The Fifteenth Century

The formation of Renaissance painting, sculpture and architecture during the quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.

3 s.h.

G 1003 0217 Selected Masterpieces of World Art

An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period; museum and gallery trips, reading and discussion. For students majoring in other fields. 3 s.h.

G 1003 0322 Early Christian and Byzantine Art

The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art. 3 s.h.

G 1003 0323 Medieval Art

Painting, sculpture and architecture in the Romanesque and Gothic periods. 3 s.h.

G 1003 0324 Northern Renaissance Painting

Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald. 3 s.h.

G 1003 0325 Seventeenth and Eighteenth Century Art

Painting, Sculpture, and Architecture in western Europe from 1600 to 1800; Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau. 3 s.h.

G 1003 0326 The Critical Approach

Historical criticism, criteria in art criticism, and an analysis of the critical process.

3 s.h.

G 1003 0327 History of Oriental Art

The factors that shaped Oriental Society; the art of China, Korea, Japan, India, southeast Asia and the neighboring Islamic world. 3 s.h.

G 1003 0328 Survey of Greek Art

Greek Art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period. 3 s.h.

G 1003 0329 American Art

Art in the United States from the Colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art. 3 s.h.

G 1003 0331 Modern Art

Movements, personalities and styles from the late nineteenth century masters to

- Cubism, Futurism, Surrealism and other schools that shaped the modern movement.
Lectures, readings, museum visits. 3 s.h.
- G 1003 0332 Ancient Art of Europe**
The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of Paleolithic Europe to the migration arts of the early middle ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings. 3 s.h.
- G 1003 0450 Modern Architecture**
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design. 3 s.h.
- G 1003 0451 Contemporary Art**
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism. 3 s.h.
- G 1003 0452 Renaissance Art in Italy: The Sixteenth Century**
The great masters of the cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of Mannerism and art and architecture in Rome, Venice, Florence and Bologna. 3 s.h.
- G 1003 0454 Field Trips in Art History I**
An intensive three week tour of major centers of art in conjunction with specific courses in art history; e.g., field trips to England, France, Holland, Italy, Greece, Mexico and to various American cities and areas. 2-8 s.h.
- G 1003 0455 Selected Problems in Art History**
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure); or a particular technique (e.g. sculpture); lectures, reports, museum and studio visits, discussion. 3 s.h.
- G 1003 0456 Modern Philosophies of Art**
The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions; the development of sentiments and attitudes affecting thinking in the field. 3 s.h.
- G 1003 0457 Pre-Columbian, Oceanic and African Art**
The major styles of Oceania, Africa, South and Central America before Columbus. 3 s.h.
- G 1003 0458 Traditional Arts of Sub-Saharan Africa**
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings; relation to ceremony and to daily life, symbolism and relations to the arts of other cultures. 3 s.h.
- G 1003 0459 Art of the Nineteenth Century**
The major movements of the nineteenth century: classicism, romanticism and realism; the salon at midcentury; impressionism; post-impressionism. 3 s.h.
- 1003 0460 Nineteenth Century American Architecture**
Building in the United States during the nineteenth century; social, economic and political forces as determinants of architectural form; interior design and decoration. Works by Latrobe, A. J. Downing, Ithiel Towne, H. H. Richardson and Louis Sullivan emphasized. 3 s.h.

G 1003 0461 Nineteenth Century American Painting

Painting in the United States during the nineteenth century; portrait, landscape and genre traditions; the Hudson River School, the Genre Painters, the Expatriates and the Independents; folk and naif paintings. Some knowledge of European painting is desirable.

3 s.h.

G 1003 0462 Senior Seminar

A seminar in selected artistic problems of historic, social and philosophical nature. Prerequisite: Consent of the Instructor.

3 s.h.

G 1003 0463 Resources and Methods of Research in the Arts

Bibliographic and other scholarly resources; the special problems of scholarship and research.

3 s.h.

G 1003 0469 The Art of the Twentieth Century

From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.

3 s.h.

G 1003 0483 Independent Study in Art History

May be repeated for credit.

3 s.h.

Prerequisite: Consent of the instructor.

G 1003 0485 Ancient Art in Italy: Etruscan and Roman Art

The arts of the Etruscans and Romans in their historical, cultural and religious settings.

3 s.h.

G 1010 0218, 0219, 0453, 0499 Film Making I, II, III, IV

Basic elements of film production: script, camera, light, sound, editing.

3 s.h. ea

Prerequisites: Taken serially.

G 1010 0332 Film Editing

Principles and techniques of film editing: artistic and esthetic concepts; practice with standard editing equipment.

3 s.h.

Prerequisite: G 1010 0219 and consent of the instructor.

G 1010 0333 Principles of Cinematography

Exercises in the use of camera equipment and practice in composition, perspective, interpretive lighting and camera movement.

3 s.h.

Prerequisite: Film Making II and consent of the instructor.

G 1010 0400 History of the Cinema as Art

The development of the motion picture as an art form from its earliest stages to the present; the technical, social, economic, cultural and esthetic factors.

3 s.h.

G 1010 0472 Documentary Film Workshop

Documentary film production; individual or group expression in making a non-fictional film.

3 s.

Prerequisite: G 1010 0219 and consent of the instructor.

G 1010 0473 Narrative Film Workshop

Narrative film production; individual or group expression in making a fictional film.

Prerequisite: Film Making II and consent of the instructor.

3 s.

G 1010 0491, 0492, 0493, 0494 Independent Study in Filmmaking I, II, III, IV

Topics selected with the approval of the instructor.

3 s.

Prerequisites: Taken serially and with instructor's approval.

G 1010 0221, 0222, 0336, 0474 Television as an Art Form I, II, III, IV

Artistic statements are produced on tape and film.

3 s.h. ea

Prerequisites: Taken serially and with instructor's approval.

G 1010 0475, 0476 Projects in Television I, II

Problems of contemporary television production; student-faculty critique of the product as an art form. 2 s.h. ea.

G 1011 0213 Photography: A Contemporary Art Form I

This studio course provides for the creative development of the individual in photography through personal experience, trips, film, discussion, lectures, criticisms and demonstration. The essentials of the photographic process including developing, enlarging, and exhibiting are covered. 2 s.h.

G 1011 0214 Intermediate Photography: A Contemporary Art Form

This studio course provides for the creative development of the individual in photography through personal experience, trips, film, discussion, lectures, criticisms and demonstration. The essentials of the photographic process including developing, enlarging, and exhibiting are covered. 3 s.h.

Prerequisite: G 1011 0213

G 1011 0310 Advanced Photography: A Contemporary Art Form

Workshop, discussion, lecture, demonstrations, criticism: Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, system and view camera will be investigated. 4 s.h.

Prerequisite: G 1011 0214

G 1011 0311 Special Processes In Photography

Investigation of non-traditional light sensitive materials for use in the photographic image making process. It extends traditional boundaries of photography through new tools that permit greater image manipulation: gum bichromate, cyanotype, platinum, photo etching, and others will be investigated. 4 s.h.

Prerequisite: G 1011 0214 or consent of instructor.

G 1011 0425, 0426, 0427, 0428 Independent Study in Photography: A Contemporary Art Form, I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with the instructor's approval.

G 1011 0484 A History of Photography

The roots of photography, its practitioners and the social and historical circumstances surrounding its creation. 3 s.h.

G 1090 0202, 0203, 0301, 0302 Ceramics: Pottery and Sculpture I, II, III, IV

Forming methods, clay composition, glazing and firing, the history of ceramics.

Prerequisites: Taken serially. 3 s.h. ea.

G 1090 0412, 0413, 0414, 0415 Independent Study in Ceramics: Pottery and Sculpture I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with the instructor's approval.

G 1090 0204 Fibers & Fabrics I

Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving, spinning and vegetable dyeing, and fabric and fiber techniques in contemporary work. 2 s.h.

G 1090 0205 Fibers and Fabrics II

One or more areas of endeavor selected for in-depth exploration; research into the various techniques and mastery of the methods expected. 3 s.h.

Prerequisite: G 1090 0204.

G 1090 0304 Fibers and Fabrics III

Further exploration of a technique or techniques selected by the student. Both a research paper on the historical implications of a technique and a final project is required.

3 s.h.

Prerequisite: G 1090 0205.

G 1090 0305 Fibers and Fabrics IV

Exploration of area or areas of textile techniques selected by the student. An exhibit of work during the semester is to be planned and hung by the student.

3 s.h.

Prerequisite: G 1090 0304.

G 1090 0441 Fibers and Fabrics V

Continuation of comprehensive studies in progress through Fiber and Fabrics I-IV.

Prerequisite: G 1090 0205.

3 s.h.

G 1090 0442 Fibers and Fabrics VI

Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.

Prerequisite: G 1090 0441.

3 s.h.

G 1090 0303 History of Textiles

The evolution of textile equipment and techniques from primitive cultures to the contemporary era.

3 s.h.

G 1090 0361, 0491 Soft Skins I, II

A study of the use of skins and hides to create items of artistic and/or functional value; mastering basic techniques. Emphasis on the design and execution of works in one or all forms of leather and fur.

3 s.h. ea.

Prerequisites: Taken serially.

G 1090 0493 Soft Skins III

This course involves the study of various skins, hides, furs and related man-made substances to create items of artistic and/or functional merit. Emphasis will be placed on utilizing the skills acquired in Soft Skins I and II.

3 s.h.

Prerequisite: G 1001 0301.

G 1090 0496 Soft Skins IV

A continuation of the study of skins, hides and fur as creative materials. Emphasis is placed on the use of the basic skills learned in the preceding courses.

3 s.h.

Prerequisite: G 1090 0493.

G 1090 0416, 0417, 0418, 0419 Independent Study in Textiles I, II, III, IV

Topics for investigation are selected with the approval of the instructor. 3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval.

G 1090 0318, 0319, 0435, 0436 Metalwork and Jewelry I, II, III, IV

Traditional techniques; advanced design concepts and techniques.

2 s.h. ea.

Prerequisites: Taken serially and with instructor's approval.

G 1090 0437, 0438, 0439, 0440 Independent Study in Metalwork and Jewelry I, II, III, IV

Topics are selected for investigation with the approval of the instructor.

3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval.

G 1091 0330 Museum Practice

A study of practices, much of it at museums in the metropolitan area with the participation of their staffs; field trips and, if possible, brief apprenticeships.

3 s.

G 1091 0489 Exhibition Workshop

Exhibition techniques and procedures; mounting of shows on campus.

3 s.h.

G 4921 0314, 0315, 0429, 0430 Printmaking I, II, III, IV

Woodcut, screen printing and monoprints. Etching, drypoint and lithography; exploration of new and advanced techniques.

2 s.h. ea.

Prerequisites: Taken serially

G 4921 0353, 0354, 0400, 0401 Relief Printing I, II, III, IV

Woodcut and woodcut engraving and contemporary relief methods such as cellocut, linocut, hand embossed print, collage, gesso or plaster print, cardboard and glue prints and other improvised relief materials.

2 s.h. ea.

Prerequisites: Taken serially.

G 4921 0355, 0356, 0402, 0403 Intaglio Printing I, II, III, IV

Drypoint, engraving, etching and such major techniques as line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint.

2 s.h. ea.

Prerequisites: Taken serially.

G 4921 0357, 0358, 0404, 0405 Screen Printing I, II, III, IV

Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques.

2 s.h. ea.

Prerequisites: Taken serially.

G 4921 0359, 0360, 0406, 0407 Lithography I, II, III, IV

Chemicals, tools, materials and techniques of the process.

2 s.h. ea.

Prerequisites: Taken serially.

G 4921 0431, 0432, 0433, 0434 Independent Study in Printmaking I, II, III, IV

Topics for investigation are selected with the approval of the instructor.

3 s.h. ea.

Prerequisites: Taken serially and with instructor's approval.

G 4921 0334 Multi-Media Publication

Production of a publication appealing to the auditory, tactile and olfactory senses and using three-dimensional materials as well as conventional two-dimensional pages; the artist's role in performing for mass production.

2 s.h.

G 4921 0464 The Art and History of the Print

The principal types of prints from their beginnings to today. For both majors and students in other fields.

2-3 s.h.

G 4921 0470 Independent Study in Multi-Image Media

Use of Media for presentation, exhibition of publication—topics selected with the approval of the instructor.

4 s.h.

Prerequisite: Departmental consent.

G 4922 0223 Shelter Form as Art I

The concepts and forms of shelter; the ways in which men and animals have housed themselves from primitive times to the present; interior spatial qualities and utilization and the role of adornment, decoration and exterior configurations. Projects include model making.

3 s.h.

G 4922 0224 Shelter Form as Art II

Problems of shelter form and space dealt with through workshop; basic building construction. Full-scale models of environmental solutions will be built. Projects include domes, inflated buildings, shelter sections and sensory spaces.

3 s.h.

Prerequisite: Shelter Form as Art I

G 4922 0338, 0477 Shelter Form as Art III, IV

Continuation of Shelter Form as Art I and II
Prerequisites: Taken serially.

3 s.h. ea.

G 4922 0337 Explorations in Contemporary Uses of Art

Art as a functional part of the contemporary community; reactions between people and the city environment; the visual potential of science and technology and its application to problems of visual form in relation to architectural and urban environment.

2 s.h.

G 4922 0340 Selected Problems in Urban Cultural Development

Consideration of a specific problem relating to creating a sensuously exciting and stimulating city and community form.

3 s.h.

G 4922 0341 History of City Form

Conceptual and esthetic planning of city form from primitive village patterns and the ancient towns of India and Egypt to schemes for the future; the significance of squares and public spaces; the question of scale and the ways in which forms and spaces are experienced.

3 s.h.

G 4922 0351, 0352, 0481, 0482 Community Forms as Art I, II, III, IV

A studio in contemporary design: the elements of form and space including natural configurations, building shapes and scale, paths of movement, city furnishings and visuals, recreational areas. Field trips and projects.

3 s.h. ea.

Prerequisite: Taken serially.

G 4922 0362 Ritual, Event and Performance

Man's universal and long-standing impulse to synthesize the various artistic impulses into a coherent ritual, event or performance, i.e., the total art act which employs the full dynamics of time, space and the group creative process.

3 s.h.

G 4922 0400 Designing Learning Environments

The role of the "physical environment" as the medium of learning experience. The methods and materials of making places that stimulate, focus and respond to the learning needs of people; design and building projects for school, classroom and community.

3 s.h.

G 4922 0478 Art in Public Places

A studio concerned with urban areas defined by man's art and used by the public: problems of using art work to achieve the desired ambience. Especially recommended for students of painting, sculpture, theater, music, dance.

3 s.h.

G 4922 0479 Independent Investigation in Urban Cultural Development

Topics for investigation will be selected with the approval of the instructor.

2-8 s.h.

Prerequisite: Consent of the instructor.

G 4922 0480 Urban Arts Program Planning

Work at an arts institution in a major city observing the institution's program; participants in the course prepare a ten year development plan for an institution emphasizing city and institutional relations. Formal defense of the plan is required.

3 s.h.

G 4922 0487 Afro-American Art

Afro-American art in the United States from colonial times to the present.

3 s.h.

G 4922 0490 Field Problems in Urban Cultural Development

From a community based classroom, work is done on specific problems in cultural development; emphasis is on the immediate locality and on questions of integration and communication with the residents and the evolution of a relevant community esthetic.

3 s.

Prerequisite: Departmental approval.

DEPARTMENT OF MUSIC

Professors: Butterfield, Landsman, Mintz, Randolph, Ravina, Sacher, Schwarz, Wilkes

Associate Professors: Carr, Chairman; Cooper, Hyman, Oneglia, Present, Shadel

Assistant Professors: Bate, Girt, Hayton, Ho, Pratt, Waters, Wheeler, Wilt, Zemach

Instructors: Battersby, Greenblatt, Rendleman

The Department of Music, accredited by the National Association of Schools of Music and the National Association for Music Therapy, offers a major for students who wish to prepare themselves in professional fields as well as music courses for general students pursuing cultural enrichment.

A concentration in Music Education certifies the student to teach vocal, instrumental and general music and music theory in the public schools. The curriculum includes pedagogy, theory, history and applied music.

The concentration in Music Therapy prepares the student as a registered music therapist.

The sequences in Composition/Theory and Performance prepare the student to enter the profession in a chosen specialty.

Students who wish to major in music must have a departmental interview, achievement test and audition to evaluate their qualifications. Prospective music majors should possess musicality, primary and secondary performing skills and a knowledge of elementary music theory, and should give evidence to serious music study throughout the high school years. They are urged to participate in choral and instrumental organizations in high school and to study piano.

The Department of Music is located in several buildings which include the Edna McEachern Recital Hall, large rehearsal halls, teaching studios, an electronic keyboard laboratory, piano practice rooms, organ practice rooms, percussion studio, a library housing several thousand recordings, listening equipment, scores and books, and the Memorial Auditorium. The music collections in Sprague Library are unusually extensive.

The department maintains instruments of all types for student rental.

APPLIED MUSIC ENTRANCE REQUIREMENTS

FOR ALL MUSIC MAJORS

PIANO PRIMARY

All major and harmonic minor scales, four octaves, hands together, I, IV, V triads and inversions in all major and minor keys.

Sight-reading of a four-part Bach chorale.

Three compositions, at least one from memory:

Bach, an invention, a prelude and fugue, or a suite.

Haydn, Mozart, or Beethoven, a sonata.

A composition by a romantic or modern composer.

PIANO SECONDARY

All non-keyboard majors must study piano secondary and take entrance placement examinations even if there has been previous study.

Entrance placement for the other secondary instruments may be obtained by audition.

ORGAN PRIMARY

All major and harmonic minor scales and chords through four octaves.

Two compositions for piano:

Bach, an invention (two or three parts); Beethoven, Chopin, Debussy, etc., a work of the student's choice.

At least one year of organ study. Suggested materials: Gleason, *Method for Organ*; Dickinson, *The Art of Organ Playing*; Carl, *Master Studies for Organ*.

Sight-reading of a hymn and a trio.

Three works from memory: Bach, a Prelude and Fugue; an adagio movement by any composer; a contemporary composition of the student's choice.

VOICE PRIMARY

Evidence of a pleasing voice with good tonal placement, breath control and flexibility. (Previous study preferred but not required.)

Sight-reading of folk tunes and hymns.

Two songs, one from memory, demonstrating musical feeling, good intonation and clear diction. Suggested material:

Soprano: Brahms, *Wiegenlied*; Quilter, arr., *Drink to Me Only With Thine Eyes*.

Contralto: Burleigh, arr., *Deep River*; Giordani, *Caro mio ben*.

Tenor: Barber, *The Daisies*; Purcell, *Passing By*.

Bass-Baritone: Franz, *Dedication*; Quilter, arr., *Drink to Me Only With Thine Eyes*.

Any selection of more difficult nature from

standard opera and oratorio, or English, French, German, and Italian art song repertory.

VOICE SECONDARY

Ability to sing an art song with good intonation. Evidence of a voice giving promise of development.

STRING INSTRUMENT PRIMARY

All major and minor scales, two or three octaves. Sight-reading orchestral music of moderate difficulty.

Violin

Study materials such as those by Mazas, Wolfahrt, Kreutzer. Corelli, Handel, Vivaldi, etc., a sonata. Viotti, Vivaldi, Accollay, etc., a concerto.

Viola

Study materials such as Wolfahrt's **Foundation Studies**, Bks. 1 and 2.

A baroque solo sonata.

Violoncello

Study materials such as those by Lee, Dotzauer, Duport.

Golterman, **Concerto No. 4**; Bach, **Arioso**, or equivalent.

Double Bass

Study materials such as Simandl (Bk. 1).

Bach, **Minuet in G**; Corelli, **Sarabande**, or equivalent.

Classical Guitar

Milan, **Pavanes** (any three); deVisee, **Suite in D Minor**; Villa Lobos, **Preludes Nos. 1 and 4**.

WOODWIND INSTRUMENT PRIMARY

Chromatic and all major scales, full range of instrument.

Sight-reading band and orchestra music of class A or B.

Flute

Study materials such as those by Boehm and Anderson, demonstrating a degree of technical advancement.

Bach, Handel, Telemann, etc., a sonata, preferably from memory.

Hindemith, Debussy, Varese, etc., a modern unaccompanied solo.

Oboe

Study materials such as Ferling, **Forty Etudes**. A standard solo sonata or concerto.

Clarinet

Study materials such as those by Klose, Baerman, Lazarus, Rose, demonstrating technical advancement.

Brahms, Sopr, Saint-Saens, etc., a standard solo.

Bassoon

Study materials from Weissenborn, Method, pp. 10-38. Mozart, Concerto, K. 191.

Saxophone

Study materials such as those by Karg-Elert, Massis, Traxler.

A standard solo work.

BRASS INSTRUMENT PRIMARY

All major scales, two octaves where possible.

Sight-reading of band and orchestra music of class A or B level.

Trumpet-Coronet.

Study materials such as Arban, **Characteristic Studies**.

Haydn, **Trumpet Concerto** (any movement).

French Horn

Oscar Franz, **Method for Horn**.

Mozart, any movement from a concerto.

Trombone-Baritone

Tyrell, **Forty Progressive Studies**.

Blazevich, **Concerto Sketch No. 5**.

Tuba

Arban, **Method** (bass clef) to be played one octave lower.

Bach-Bell, **Air and Bourree**, or equivalent.

PERCUSSION INSTRUMENT PRIMARY

Sight-reading of orchestral excerpts.

Snare Drum

Selected technical rudiments.

Timpani

Demonstrate ability to tune and execute single stroke roll.

Mallet Instruments

All major and minor scales, triadic arpeggios, a solo piece of the student's choice.

HARP PRIMARY

Three pieces from the following list, or equivalent.

Etudes by Bochsa, Pozzoli, **Etudes Modernes** of Salzedo.

Sonatas by Naderman, Krumpholz.

Solos: **Two French Folksongs** by Grandjany; **Little Fountain** by Pratt; **Album Leaves** by Renie or works of equivalent difficulty.

History and Literature Concentration

Candidates concentrating in Music History and Literature are not required to study or audition on a primary instrument. They must, however, complete all other audition requirements, including secondary piano and declare their intention to follow the music history and literature concentration. Any transfer to another concentration will require an audition on a primary instrument, the availability of teacher time in the selected area, and permission of the department's chairman.

Theory and Composition Concentration

Students wishing to become candidates for the theory and composition concentration must submit a portfolio of compositions and/or analytical sketches before the completion of their sophomore year.

APPLIED MUSIC REQUIREMENTS FOR GRADUATION

Each music major is required to complete an applied music sequence which includes the performing skill on which his acceptance to the department was based, and a sequence in a secondary medium. Either the primary or secondary will be a keyboard instrument.

The amount and extent of study in applied music varies with the area of concentration.

Students majoring in performance and music education will present a graduation recital in the primary performing medium during the senior year. Secondary instruments are taught in class and/or privately, if teacher time is available.

All music students will study with applied music teachers provided by the College. Instruction in applied music during the summer session is taken at the student's expense. Students are expected to accompany on the piano at a level of their ability designated by their teachers, and to participate actively in the musical life of the College and Community.

INSTRUMENT RENTAL

A fee of \$20.00 per semester will be paid by students who rent college-owned instruments. An instrument rental fee will also be paid for summer rental.

ENSEMBLE REQUIREMENTS

All music majors are required to participate in primary and alternate ensembles each semester of their college attendance. The students pursuing the Teacher Education concentration are excused from ensemble only for the time in which they are engaged in the junior and senior teaching experience off-campus. The department chairman may assign any music major to additional ensemble semesters in excess of the minimum requirements as the needs of the department may require.

DEFINITIONS

Each student must participate in Orchestra, Band or Chorus in accordance with his concentration and major instrument. For those majoring in brass, woodwinds or percussion, this ensemble will be band; for those majoring in strings, this ensemble will be orchestra; for those majoring in voice, this ensemble will be choir. For those majoring in other instruments, (guitar, piano, organ, for example) this ensemble will be choir unless otherwise assigned by the department chairman. Each student must also participate in an alternate ensemble, the assignment to be made by the Department Chairman. Alternate Ensembles include chamber ensembles as well as large ensembles.

Ensemble Requirements for the Several Concentrations: 7 primary semesters, 5 alternate semesters.

Performance: 8 primary semesters. 4 alternate

semesters.

Music Therapy: 8 primary semesters.

Composition/Theory: 8 semesters in ensemble of student's choice subject to the approval of the department chairman.

History and Literature: 8 semesters in ensemble of student's choice, are recommended subject to the approval of the Ensemble Director.

GENERAL POLICIES

1. The manner in which fulfillment of the ensemble requirements stated above are to be fulfilled depends on the student's skills. The student is subject to placement and assignment by the conductors and/or the department chairman.
2. Members of the orchestra will be selected by audition and consultation with the teachers of primary performing media and with the approval of the department chairman.
3. Students selected to play in both band and orchestra may request waiver of the alternate ensemble requirement which is to be in writing from the department chairman.
4. All students are expected to regard ensemble performance as a major professional experience and to exercise great responsibility in attending rehearsals, learning music, maintaining performance decorum, being punctual and dressing appropriately.

Concentration in Theory—Composition

	semester hours
Applied Music	
Primary Instrument.....	8
Secondary Instrument.....	4
Ensembles.....	4
Music Theory and History	
H 1016 0101, 0102, 0201, 0202, 0301, 0302 (Music Theory I-VI)	22
H 1016 0341, 0342, 0343, 0344 (Music Composition I-IV)	20
H 1006 0307, 0308 (Music History I, II)	6
Theory elective	3
Additional Music Requirements	
H 0832 0105 Strings I.....	1
H 0832 0335 Elementary Conducting.....	2
H 0832 0429 Choral Conducting.....	2
Music electives	8
REQUIRED TOTAL	80

NOTE: Students are required to participate in at least one primary ensemble each semester.

The collateral course H 4002 0105 Acoustics may be applied to General Education Requirements.

Concentration in Music Therapy

Applied Music		semester hours
Primary Instrument		8
Secondary Instrument		4
Ensembles.....		4
Secondary Guitar		2
Music Theory and History		
H 1016 0101, 0102, 0201, 0202, 0301 (Music Theory I-V).....		19
H 1006 0307, 0308 (Music History I, II).....		6
Additional Music Requirements		
H 0832 0105, 0205, 0206, 0306 (Strings, Brass, Woodwinds, Percussion Instruments)		4
H 0832 0335, 0429 Elementary and Choral Conducting		4
H 1015 0150 Influence of Afro-American Music on Culture or H 1015 0160 Introduction to Music in World Cultures		3
H 1017 0460 Use of Recreational Music in Therapy		2
H 1017 0361, 0362, 0363, 0364 Music Therapy Practicum I-IV		4
	REQUIRED TOTAL	60
Professional Sequence		
Psychology		12
Introduction to Music Therapy I & II		4
Psychological Foundations of Music I & II.....		4
Influence of Music on Behavior.....		3
Music in Therapy.....		3
Clinical Experience II (6 months).....		1
	REQUIRED TOTAL	27
General Education to include the following courses:		
Biology, Cultural Anthropology, Sociology, Individual and Group Dynamics.....		12
Acoustics, Statistics, Dance, Introduction to Art Therapy and Creativity Development		10

Concentration in Music Performance

Applied Music		semester hours
Primary/Major Instrument		32
Secondary Instrument		4
Ensembles.....		6
Music Theory and History		
H 1016 0101, 0102, 0201, 0202, 0301, 0302 (Music Theory I-VI).....		22
H 1006 0307, 0308 (Music History I, II).....		6
Additional Music Requirements		
H 0832 0105 Strings I.....		1
H 0832 0335 Elementary Conducting.....		2
H 0832 0429 Choral Conducting.....		2
Electives.....		6
	REQUIRED TOTAL	81

- NOTE: 1. Recitals in the sophomore and senior years are required.
2. Students are required to participate in at least one primary ensemble each semester.
- The collateral course H 4902 0105 Acoustics course may be applied to General Education Requirements.

Concentration in Music Education

	semester hours
Applied Music	
Primary Instrument	14
Secondary Instrument	4
Ensembles	6
Music Theory & History	
H 1016 0101, 0102, 0201, 0301, 0302 (Music Theory I-VI)	22
H 1006 0307, 0308 (Music History I, II)	6
Music Electives	2
Professional Sequence in Music Education	
H 0832 0105 String Instruments	1
H 0832 0205 Brass Instruments	1
H 0832 0206 Woodwind Instruments	1
H 0832 0306 Percussion Instruments	1
H 0832 0335 Elementary Conducting	2
H 0832 0420 Secondary Methods	3
REQUIRED TOTAL	63

NOTE: Students are required to take at least one primary ensemble for seven semesters. A senior recital of at least 30 and no more than 35 minutes of music is required in the seventh semester of the primary instrument.

To complete State Certification Requirements the following additional courses are required:

Psychology (7 2001 0101, 0200)	6
H 0832 0320 Elementary Music Methods	3
Junior Observation Experience	1
Junior and Senior Teaching Experiences (4 each)	8
Teacher, School and Society	3
Senior Seminar	1
Professional Seminar	1
REQUIRED TOTAL	23

The collateral course 4902 0105 Acoustics may be applied to General Education Requirements.

Concentration in Music History and Literature

	semester hours
Applied Music and Theory	
Secondary Instrument: Piano	4
H 1016 0101, 0102, 0201 (Music Theory I-III)	12
Music History and Literature	
H 1006 0307, 0308 (Music History I, II)	6
H 1015 0100 Introduction to Music	3
H 1015 0337 The Opera	3
H 1015 0338 Orchestral Literature	3
H 1015 0339 Music in Modern Society	3
Additional Music Requirements	4
H 0832 0335 Elementary Conducting	2
Two of the following:	
H 0832 0105 Strings I	1
H 0832 0205 Brass Instruments	1
H 0832 0206 Woodwind Instruments	1
H 0832 0306 Percussion Instruments	1
REQUIRED TOTAL	42

NOTE: It is recommended that students participate in ensembles each semester.

Music Course Descriptions

H 0832 0105 String Instruments I

Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes.

1 s.h.

H 0832 0106 String Instruments II

Continuation of H 0832 0105. Aims to develop string playing at the elementary level. It includes higher positions, bowing techniques and vibrato. Opportunity is given to the student to become familiar with the viola, cello and double bass. Students learn a repertory of folk and elementary ensemble pieces suitable for grade school. Meets two hours weekly.

1 s.h.

Prerequisite: H 0832 0105.

H 0832 0132 Marching Band Techniques

Methods, organization and planning; drill design, playing, rehearsal techniques. 2 s.h.

H 0832 0205 Brass Instruments

Elementary skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes.

1 s.h.

H 0832 0206 Woodwind Instruments

Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments, organizing woodwind classes.

1 s.h.

H 0832 0300 Principles and Practices of Music Education and Therapy

Basic educational methods and philosophies which are useful to both education and therapy students. Foundations of Orff and Kodaly techniques; special attention to dealing with learning disabilities, mental retardation, emotional disturbance. Goal orientation and activities aimed at changing behavior through music. Team taught by specialists in music education and music therapy.

3 s.h.

Prerequisite: Permission of coordinators of Music Teacher Education and Music Therapy.

H 0832 0302 Teaching Music in the Elementary Grades K-6

Principles, techniques, materials and methods; Kodaly, Orff, MMCP, Carabo-Cone. Techniques germane to both the traditional and more innovative school structures. Individualized instruction and techniques for small and large groups. The sequential curriculum in music education.

3 s.h.

Prerequisite: H 1016 0202.

H 0832 0306 Percussion Instruments

Elementary skills on snare drum, bass drum, tympani, cymbals, bells, etc.; materials and methods for teaching these instruments in the classroom.

1 s.h.

H 0832 0334 Choral Technique

Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.

2 s.h.

Prerequisite: H 1016 0202.

H 0832 0335 Elementary Conducting

Baton technique and clef reading in orchestral and choral scores.

2 s.h.

Prerequisite: H 1016 0202.

H 0832 0336 School Orchestras and Bands

Organization; selection, purchase and care of instruments; evaluation of materials techniques of instruction; substitution of parts, rehearsal routine; marching band repertory suitable for high school orchestras and bands.

2 s.h.

Prerequisite: H 0832 0205, 0832 0206.

H 0832 0405 Orchestra Conducting and Score Reading

Ear training appropriate to conducting, baton technique, score reading, interpretation. 2 s.h.

Prerequisite: H 0832 0335 and H 1016 0302 or equivalent.

H 0832 0420 Teaching Music in Secondary Schools

Philosophy, aims, content and procedures in junior and senior high school music education; teaching general music; incorporation of new methods; lesson plans and units of work for classroom use. 3 s.h.

Prerequisite: H 0832 0302.

H 0832 0429 Choral Conducting

Professional work for teachers-in-service; tone production, tuning, posture, score reading, interpretation and techniques of choral conducting; materials suitable for use in high school. 2 s.h.

Prerequisite: H 0832 0335.

H 0832 0430 Problems in Teaching School Music

Restricted to those who have completed student teaching. Evaluation of student-teaching experiences; teaching problems and solutions; overview of music education. 2 s.h.

Prerequisite: H 0832 0420 and completion of student teaching.

H 0832 0499 Independent Study in Music Education

Project and/or study area planned with sponsoring faculty member. 3 s.h.

Prerequisite: Sponsoring faculties permission.

H 1004 0000 Applied Music

Instruction in flute, oboe, clarinet, saxophone, bassoon, French horn, trumpet, baritone horn, trombone, tuba, percussion, harp, piano, organ, voice, violin, viola, violoncello, double bass and guitar.

A listing of course numbers for primary and secondary performing media is available in the office of the Department of Music as are suggested course sequences for the areas of concentration. All non-keyboard majors will have class piano as a secondary instrument. All keyboard majors will have class voice as a secondary instrument.

H 1004 0030 Choir

$\frac{1}{2}$ s.h.

H 1004 0031 Orchestra

$\frac{1}{2}$ s.h.

H 1004 0032 Band

$\frac{1}{2}$ s.h.

H 1004 0033 Marching Band

$\frac{1}{2}$ s.h.

H 1004 0034 Opera Workshop

Musical theater studied through performance; nature of dramatic music, problems of movement, make-up, costuming, props and scenery. Open to juniors and seniors and to lower classmen by permission. Accompanying and singing roles assigned by audition. 2 s.h.

H 1004 0100 Class Piano for the Non-Music Majors

The course will cover basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading will be helpful but not necessary. 3 s.h.

H 1004 0300 Stage Band and Improvisation Laboratory

Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom. 2 s.h.

H 1004 0301 Chamber Ensemble Performance

Study through playing or singing of chamber music in ensembles of varying size and musical styles. $\frac{1}{2}$ s.h.

Prerequisite: Ability to perform at a level satisfactory to instructor.

H 1004 0408 Chamber Music

Representative chamber works studied through concert attendance, performance and directed listening. Open to all students by audition. 3 s.h.

H 1004 0461 Project in Music I—Opera Production

Student production and direction of a contemporary opera, folk musical or original work. Open to all students by audition. 3 s.h.

H 1004 0499 Independent Study in Music Performance

Project and/or study area planned with sponsoring faculty member. 3 s.h.
Prerequisite: Sponsoring faculties' permission.

H 1006 0000 Music History and Literature

The following courses may also be considered courses in Music History and Literature: H 1015 0100, 0150, 0209, 0309, 0337, 0338, 0340, 0462.

H 1006 0201 Metropolitan Opera—Seminar in the Study of Opera

Study of opera at the Metropolitan Opera House; observation of rehearsals, lecture-demonstrations; on-site study of technical aspects of opera production. Additional research opportunities provided for a third credit hour. 2 or 3 s.h.

H 1006 0307 Music History I

Styles, genres and shaping forces of Western music from the rise of polyphony in the early Middle Ages through the early works of Beethoven. 3 s.h.

Prerequisite: Status as a music major or permission of the instructor.

H 1006 0308 Music History II

Continuation of H 1006 0307, beginning with Beethoven; the music of the Romantic Era as manifested in the nineteenth and twentieth centuries; major currents of the Modern Era. 3 s.h.

Prerequisite: Status as a music major or permission of the instructor.

H 1006 0407 Music History III

Major figures, forms, genres and styles from Debussy to the present. 3 s.h.
Prerequisite: Status as a music major or permission of the instructor.

H 1006 0462, 0463 Seminar in Music, I, II

Research on a project or problem in an area selected by each student with the instructor's approval; conducted in America or abroad. 3 s.h. ea.

Prerequisite: Permission of the instructor.

H 1006 0499 Independent Study in Music History

Project and/or study area planned with sponsoring faculty member. 3 s.h.
Prerequisite: Sponsoring faculty's permission.

H 1015 0029 Student Recital

All music majors must register for this number in order to free their schedules for recital commitments. 3 s.h.

H 1015 0100 Introduction to Music

Expansion of musical awareness through live performance and directed listening. 3 s.h.

H 1015 0150 Influence of Afro-American Culture on Music

Ways in which the Afro-American culture has colored the development of American folk and art music. 3 s.h.

H 1015 0160 Introduction to Music in World Cultures

Study of the cultural and artistic forces which shape the musics of the non-western

world and the various folk and art musics resulting from those forces. 3 s.h.

H 1015 0170 Recreational Music for the Large Group

Opportunity for all students, whether majoring in music or not, to participate in group musical activities. The specific character of the course will be determined by the class. 3 s.h.

H 1015 0209 Introduction to Jazz

Jazz as an American phenomenon; musical materials as manipulated by jazz artists, the impact on American popular music, dance and theater; early jazz players and developments. 3 s.h.

H 1015 0309 The Art of Jazz

Development of jazz in America and abroad, sociological implications in American society and the impact of jazz upon contemporary composition. 3 s.h.

Prerequisite: H 1015 0209 or permission of the instructor.

H 1015 0337 The Opera

Styles and approaches in music for purposes of dramatic characterization, atmosphere and plot development; representative works in English, Italian, French and German, from Monteverdi to the present. 3 s.h.

H 1015 0338 Orchestral Literature

Representative genres and styles for large instrumental ensembles from the early Baroque era to the present. 3 s.h.

H 1015 0339 Music in Modern Society

The nature, function and forms of music in modern society in terms of social, cultural and political forces; recommended for majors in the social sciences. 3 s.h.

H 1015 0340 Music of the Romantic Period

The romantic spirit in nineteenth-century and selected modern works; program music, piano and song literature, and national schools of composition; performance and directed listening; parallel aspects of literature and the visual arts. 2 s.h.

H 1015 0350 The Literature of Chamber Music

Study of the various types of chamber music for vocal and instrumental groups. 3 s.h.
Prerequisite: One course in music.

H 1015 0351 Music in Urban Society

Organization and management of concert halls, opera companies, music publishing firms and recording companies; financing and anticipating the needs of the urban community; construction and acoustics of halls and theaters. 3 s.h.

H 1015 0352 Music and Film

Aesthetic and social effects of music on cinematography: enhancing plot, augmenting visual qualities and focusing audience attention; music from early silent films to modern; no previous music or film experience required. 3 s.h.

H 1015 0426 Survey of Music Literature

For the general student. Folk and art song, oratorio, opera, idealized dance forms, instrumental suites, symphonic poem; principles of musical form. 3 s.h.

H 1015 0462 Project in Music II—Study Tour

Course description available in Winter Session brochure. Open to all students, but limited to enrollment of twenty. Special fee to be announced. Pass/fail. Available only in Winter Session. 3 s.h.

H 1016 0100 Music Composition for Non-Majors

Creative exploration of the various aspects of the craft of music composition. Deals

with musical notation, instrumentation, forms, styles, contemporary techniques, performance practice, etc. 3 s.h.

Prerequisite: Ability to read music at a basic level.

H 1016 0101 Theory I

Integrated study of harmony, ear training, sight singing and form and analysis. Meets five hours weekly. 4 s.h.

H 1016 0102 Theory II

Integrated study of melody, harmony, counterpoint, ear training, sight singing and form and analysis. Meets five hours weekly. 4 s.h.

H 1016 0201 Theory III

Integrated study of melody, harmony, counterpart, ear training, sight singing and form and analysis. Meets five hours weekly. 4 s.h.

H 1016 0202 Theory IV

Integrated study of harmony, ear training, sight singing and form and analysis. Meets five hours weekly. 4 s.h.

H 1016 0301 Counterpoint

Polyphonic textures, including writing, dictation and analysis. 3 s.h.

Prerequisite: H 1016 0202.

H 1016 0302 Orchestration

Range, tuning, transposition and use of all band and orchestral instruments; practical arranging for various combinations of instruments and completion of a full score. 3 s.h.

H 1016 0303 Theory V

Continuation of materials and techniques of Theory I-IV. Writing, dictation and analysis are included. Emphasis also on layer analysis and historical counterpoint.

Prerequisite: Theory I, II, III, IV. 4 s.h.

H 1016 0304 Theory VI

Continuation of materials and techniques of Theory I - V. Writing, dictation and analysis are included. Emphasis also on orchestration and analytical procedures.

4 s.h.

H 1016 0340 Structural Analysis

Formal organization of selected compositions. 2 s.h.

H 1016 0341 Composition

H 1016 0342 Composition

Restricted to majors in Theory/Composition. 2 s.h. ea

H 1016 0401 Musical Composition

Exploration of the various trends in the 20th Century composition. 3 s.h.

Prerequisite: H 1016 0202.

H 1016 0412 Electronic Music Composition

Exploration of electronic music techniques. Practical experience in both concrete and synthesizer music. 3 s.h.

Prerequisite: Four semesters of composition courses and/or permission of instructor.

H 1016 0415 Theory Pedagogy

Introduction to teaching methods and materials for developing theory programs in the secondary schools. 2 s.h.

H 1016 0441 Private Study in Composition**H 1016 0442 Private Study in Composition**

Restricted to majors in Theory/Composition.

2 s.h. ea.

Prerequisite: Permission of Instructor.

H 1016 0498 Proseminar in Music Theory

Analytical and aural skills and harmonic, contrapuntal and compositional procedures found in western art music reviewed so as to bring students to the level of theoretical understanding and skills necessary for the study of Theory at the graduate level. This course may not be used to satisfy the 32 hours minimum required for the Master's Degree.

3 s.h.

Prerequisite: Minimum of seven semesters as a music major.

H 1016 0499 Independent Study in Theory/Composition

Project and/or study area planned with sponsoring faculty member.

3 s.h.

Prerequisite: Sponsoring faculties' permission.

H 1017 0160 Introduction to Music Therapy I

For students majoring in Music Therapy or for students from other areas of music study. Ways in which attitudes are formed and changed; attitudes of therapist and society toward the patient.

2 s.h.

H 1017 0207 Band and Orchestra Instruments: Pedagogy and Practicum

Techniques of playing violin, string bass, flute, clarinet, saxophone, trumpet, trombone, drum set, and teaching methods appropriate to people with no music reading ability.

2 s.h.

H 1017 0208 Recreational Instruments: For the Music Reader

Elementary playing, accompanying, and teaching skills on accordion, popular and church organ, recorder, tonette, autoharp, ukulele, and harmonica.

2 s.h.

Prerequisite: Secondary Piano 1 and 2, or permission of instructor.

H 1017 0261 Introduction to Music Therapy II

Course covers observing, measuring, and recording behavior in a music therapy setting. Other aspects of planning for music therapy sessions are also included, as well as observing music therapy sessions.

2 s.h.

Prerequisite: Permission of instructor.

H 1017 0361 Music Therapy Practicum I

Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of the clinical work.

1 s.h.

Prerequisites: 1017 0106, 0261 0460, or permission of music therapy coordinator.

H 1017 0460 The Use of Recreational Music in Therapy

A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.

2 s.h.

Prerequisite: H 1017 0261.

H 1017 0461 Influence of Music on Behavior

Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.

3 s.h.

Prerequisite: Senior standing in Music Therapy.

H 1017 0462 Music in Therapy

Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics; setting up a music therapy program.

3 s.h.

Prerequisite: Senior standing in Music Therapy.



H 1017 0463 Psychological Foundations of Music I

An exploration of the basic research literature concerning psychological research in music, with emphasis on research techniques and interpretation of data. Research findings will be used to discuss current ideas and practices in music therapy, performance, and music education.

2 s.h.

Prerequisite: Junior or Senior standing.

H 1017 0464 Psychological Foundations of Music II

The emotional correlates of the musical experience will be explored through research findings, psychological testing and inquiry, and philosophy. Implications of current theories will be used to clarify the student's view of practices in music therapy, performance, and music education.

2 s.h.

H 1017 0465 Clinical Experience II

Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.

1 s.h.

Prerequisite: Completion of all course work leading to a baccalaureate degree or equivalent.

DEPARTMENT OF SPEECH AND THEATER

Professors: McElroy, Rockwood, Seidler

Associate Professors: MacConnell, Moll, Chairman

Assistant Professors: Bella, Bond, Eaton, Ratliff, Roberts, Sabatelli,

Sobolik, Stasheff, Travis, Weldon

Instructors: Bianchi, Figola, Hermans, Nave, Swinston

The Department of Speech and Theater provides extensive offerings in all aspects of theater, dance, general speech, broadcasting, teacher certification, and communication theory. The department's Major Theater Series, telecasting company, dance company/concerts, and intercollegiate forensic competitions provide for a blend of theory and performance work in all areas. A major in the department consists of a basic core program, departmental electives and completion of one of the following concentrations:

- | | |
|--------------------------|--------------------------------------|
| 1. broadcasting | 5. general speech and theater |
| 2. acting/directing | 6. communication theory and practice |
| 3. technical theater | 7. teacher certification |
| 4. dance/dance education | |

Electives, both in and out of the department, are selected by the student in consultation with an advisor in order to adjust programs to individual needs.

All students planning to major in the department must be interviewed prior to declaring the major.

Speech and Theater Major

The minimum 40 s.h. major is distributed as follows:

	semester hours
A. Basic Core Program	
I 1007 0100 Introduction to the Theatrical Medium.....	3
I 1506 0103 Voice and Speech Improvement.....	3
I 0603 0280 Elements of the Public Media.....	3
B. Concentration Requirements	23-30
C. Department Electives.....	8-1
	REQUIRED TOTAL
	40

Requirements of Concentrations are as follows:

Broadcasting

	semester hours
I 0603 0101 Introduction to the Broadcasting Medium	3
I 0603 0240 Writing for the Media.....	3
I 0603 0251 Radio-Television Production I.....	3
I 0603 0252 Television Production II	3
I 0603 0253 Radio Production II	3
I 0603 0350 Television Production III.....	3
Two of the following:	
I 0603 0315 Political Broadcasting.....	3
I 0603 0380 Cultural Impact of Broadcasting	3
I 0603 0491 International Broadcasting.....	3
I 0603 0460 Station Management	3
	REQUIRED TOTAL
	24

Acting-Directing

	semester hours
I 1007 0122 Acting I.....	2
I 1008 0141 Modern Dance Technique—Beginning I.....	2
I 1007 0150 Technical Theater I	3

I 1007 0201, 0202, 0203	Theater Practicum	.....	4
I 1007 0222	Acting II.	.....	3
I 1007 0278	Make-Up	.....	2
I 1007 0330	Play Direction I.	.....	3
I 1007 0410 or 0411	Theater History: Classical to Restoration	.....	3
I 1007 0430	Play Direction II	.....	3
		REQUIRED TOTAL	25

Technical Theater

semester hours

I 1007 0122	Acting I	.....	2
I 1007 0150	Technical Theater I	.....	3
I 1007 0201, 0202	Theater Practicum	.....	4
I 1007 0242	Drawing for the Theater	.....	2
I 1007 0270	Introduction to Costuming for the Stage	.....	3
I 1007 0340	Theatrical Design	.....	3
I 1007 0410 or 0411	Theater History: Classical to Restoration	.....	3
I 1007 0455	Fundamentals of Stage Lighting	.....	3
		REQUIRED TOTAL	23

Dance Performance

semester hours

14 credits of dance technique* The following sequence is suggested:			
I 1008 0141, 0142	Modern Dance Technique—Beginning I, II	.....	2 ea.
I 1008 0241, 0242	Modern Dance Technique—Intermediate I, II	.....	2 ea.
I 1008 0253	Dance Technique—Jazz I	.....	2
I 1608 0280, 0281	Dance Practicum	.....	2
I 1008 0351, 0352	Dance Technique—Ballet I, II	.....	2 ea.
I 1008 0345	Dance Technique—Ethnic	.....	2
I 1008 0441, 0442	Modern Dance Technique—Advanced I, II	.....	2 ea.
Remaining required courses			
I 1008 0161	Choreography I	.....	2
I 1008 0210	History of Dance	.....	2
		REQUIRED TOTAL	24

Dance Education

semester hours

12 credits of dance technique* The following sequence is suggested:			
I 1008 0141, 0142	Modern Dance Technique—Beginning I, II	.....	2 ea
I 1008 0241	Modern Dance Technique—Intermediate I	.....
I 1008 0351	Dance Technique—Ballet I	.....
Select four additional courses from			
I 1008 0242	Modern Dance Technique—Intermediate II	.....
I 1008 0253	Dance Technique—Jazz	.....
I 1008 0280, 0281	Dance Practicum	.....
I 1008 0352	Dance Technique—Ballet II	.....
I 1008 0354	Dance Technique—Ethnic	.....
I 1008 0441, 0442	Modern Dance Technique—Advanced I, II	.....	2 ea
I 1008 0121	Recreational Dance Forms	.....
Remaining Required Courses			
I 1008 0161	Choreography I	.....
I 1008 0210	History of Dance	.....
I 1008 0325	Methods and Materials for Teaching Dance	.....
		REQUIRED TOTAL	2

*Students will be placed according to present skill. A student may be required to take introduction to Dance before beginning his sequence.

Speech and Theater

semester hou

I 1506 0104	Phonetic Study of Speech Sounds	
-------------	---------------------------------	-------	--

| 1007 0122	Acting I	2
| 1007 0150	Technical Theater I	3
| 1506 0160	Oral Interpretation of Literature	3
| 1506 0234	Fundamentals of Public Speaking	3
| 1007 0330	Play Direction I	3
| 1007 0410 or 0411	Theater History: Classical to Restoration	3
| 1506 0441	Group Discussion and Leadership	3
	REQUIRED TOTAL	23

Communication Theory and Practice

	semester hours
| 1007 0122	Acting I
| 1506 0234	Fundamentals of Public Speaking
| 1506 0438	Seminar in Persuasion and Social Control
| 1506 0441	Group Discussion and Leadership OR
| 1506 0442	Argumentation and Debate
| 1506 0271	Interpersonal Communication I
| 1506 0272	Interpersonal Communication II
| 1506 0334	Contemporary Public Address
| 1506 0374	Group Processes
| 1506 0375	Nonverbal Communication
| 1506 0475	Seminar in Communication Theory
	REQUIRED TOTAL
	29

Teacher Certification

	semester hours
| 1506 0104	Phonetic Study of Speech Sounds
| 1007 0122	Acting I
| 1007 0150	Technical Theater I
| 1506 0160	Oral Interpretation of Literature
| 1007 0201, 0202, 0203	Theater Practicum
| 1506 0234	Fundamentals of Public Speaking
| 1506 0302	Speech Improvement Practicum
| 1007 0330	Play Direction I
| 1007 0411	Theater History: Classical to Restoration
| 1506 0441	Group Discussion and Leadership
	REQUIRED TOTAL
	28

Speech and Theater Minor

Students from other departments who plan to pursue minor programs in Speech and Theater are advised to complete the following requirements.	semester hours
Core Program	9
| 1007 0122 Acting I	2
| 1007 0150 Technical Theater I	3
| 1506 0160 Oral Interpretation of Literature	3
| 1007 0201, 0202, 0203 Theater Practicum	2
| 1506 0234 Fundamentals of Public Speaking	3
| 1007 0330 Play Direction I	3
	REQUIRED TOTAL
	25

Speech and Theater Course Descriptions

I 0603 0101 Introduction to the Broadcasting Medium

The development, organization and operation of radio and television in modern society, social and cultural influence of commercial and educational broadcasting.

3 s.h.

I 0603 0221 Radio Practicum

Practice in radio skills acquired in the classroom and in radio operation. This course may be repeated.

1 s.h.

Prerequisites: I 1506 0100 or 0123 and I 0603 0251 or concurrent.

I 0603 0222 Television Practicum

Closed circuit television production; students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.

1 s.h.

Prerequisite: concurrent with I 0603 0251 or 0252 or 0350.

I 0603 0240 Writing for the Broadcast Media

Styles and forms involved in "non-dramatic" program writing for the media; preparation of scripts for sports, news, talk and documentary programs.

3 s.h.

Prerequisite: I 0603 0101.

I 0603 0251 Radio-Television Production I

The tools and techniques of television production applied to news, commercial, interview and demonstrating programs.

3 s.h.

Prerequisite: I 0603 0101.

I 0603 0252 Television Production II

Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.

3 s.h.

Prerequisite: I 0603 0251.

I 0603 0253 Radio Production II

The production of radio drama, documentaries and actualities, including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.

3 s.h.

Prerequisite: I 0603 0101, I 0603 0251.

I 0603 0280 Elements of Public Media

Broadcasting theory concentrating on the four controlling elements: the physical nature of the broadcasting media, historical background, economic constraints and the problems of social control.

3 s.h.

I 0603 0315 Political Television and Radio

An historical-critical introduction to radio and TV as related to political figures, institutions and issues; J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

3 s.h.

I 0603 0350 Television Production III

Two television productions written, produced and directed; production and direction of remote broadcasts.

3 s.h.

Prerequisites: I 0603 0101, 0251, 0252.

I 0603 0353 Children's Television

Current children's productions and examination of research on their affect/effectiveness; work on class productions designed for children.

3 s.h.

Prerequisite: I 0603 0101, 0251.

I 0603 0380 Cultural Impact of Broadcasting

Examination of the ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

3 s.h.

I 0603 0403 Independent Study

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1-3 s.h.

I 0603 0460 Station Management

Economic support patterns, evolution of broadcast programming; determining community needs; on-air operations, station promotion and advertising; legal and ethical questions relating to broadcasting.

3 s.h.

Prerequisite: I 0603 0101, 0251, 0252.

I 0603 0465 Radio and Television Arts Activity

Credit is awarded for some supervisory radio and television arts activity, such as: writing broadcasting scripts; directing and/or producing a series of radio or television programs, etc. Enrollment by permission of the department chairman only.

1-3 s.h.

I 0603 0490 Internship in Broadcasting

Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center or program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

Credit by arrangement

Prerequisite: Departmental approval.

I 0603 0491 International Broadcasting

Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy; Voice of America, Radio Free Europe, missionary radio and group listening and viewing systems.

3 s.h.

Prerequisite: I 0603 0101.

I 1007 0100 Introduction to Theatrical Medium

All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.

3 s.h.

I 1007 0120 Movement for the Theater

Uninhibited movement for the actor and others in music, dance and mime; exploring and developing functional and expressive movement.

2 s.h.

1007 0122 Acting I

Basic techniques of theatrical communication: involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.

2 s.h.

1007 0150 Technical Theater I

The production concept from the designer's approach through a correlation of related arts to the final production; emphasis on correlation of scenic and lighting designs.

3 s.h.

1007 0201 Theater Practicum**1007 0202 Theater Practicum**

On or off stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.h. ea.

I 1007 0203 Theater Practicum

On or off stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.h.

I 1007 0222 Acting II

Extension of the actor's self into characterization; learning to externalize; the psychological elements of a character projected to an audience, using clues in the script to fulfill the author's intent; work on scenes, applying these techniques. 2 s.h.
Prerequisite: I 1007 0122 or equivalent.

I 1007 0234 History of Decor

The major architectural and decorative periods of the world and their influences and role in the theater as applied to the designer.

2 s.h.

I 1007 0242 Drawing for the Theater

Drafting techniques for theatrical designs; basic projective techniques, color harmony and perspective. Preparation for Technical Theater II or Theatrical Design for students without prior experience.

2 s.h.

I 1007 0250 Technical Theater II

The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.

3 s.h.

Prerequisite: I 1007 0150 or consent of instructor.

I 1007 0270 Introduction to Costuming for the Stage

Physical and aesthetic requirements of the actor, director and designer; the history of clothing and the application to stage costumes; construction projects, lecture and discussion.

3 s.h.

I 1007 0278 Stage Makeup

Makeup materials and their potential uses; creating corrective and character makeup, mustaches and beards for an entire cast; research or creative experience to compile a practical resource file.

2 s.h.

I 1007 0320 Dance for the Theater

Basic skills in various theater forms; choreographic techniques applied to selected theatrical problems; dance in musical comedy, entr'acte, processions, fight scenes, period plays and dream sequences.

2 s.h.

I 1007 0322 Acting III

Strengthening the actor's controls and extending his boundaries, more challenging roles; period plays and the problem of style. Admission by audition.

3 s.h.

I 1007 0323 Voice for the Theater

The voice skills necessary for the actor; intensive work directed toward classic and modern styles in stage diction.

3 s.h.

Prerequisites: I 1007 0122; I 1506 0103, 0160.

I 1007 0330 Play Direction I

Principles of direction; selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.

3 s.h.

Prerequisites: I 1007 0122, 0150.

I 1007 0340 Theatrical Design

Visual design in the theatrical medium; execution of actual designs stressing originality within given stylistic concepts.

3 s.h.

Prerequisite: I 1007 0150 or consent of the instructor.

I 1007 0345 Stage Design

Instruction of stage design for the theater. Students design scenery for realistic and non-realistic drama styles providing experience in various styles of rendering, model making, artistic and technical principles of design. 3 s.h.

Prerequisite: I 1007 0150, 0340, 0242.

I 1007 0352 Scene Painting

To introduce in theory and practice general techniques of the scenic artist, and the methods and materials used in this discipline. 2 s.h.

Prerequisite: I 1007 0151, 0242.

I 1007 0357 Opera Workshop**I 1007 0457 Opera Workshop**

A study of the literature and performance problems of opera by means of rehearsal and production of representative excerpts in English. Emphasis on stage movement, diction and stylistic modes of presentation. An interdepartmental offering open to all students held concurrently with I 1004 0034, 0035. Non-singers must obtain approval from the instructor. Singers and pianists must audition for roles. Juniors and Seniors only. 2 s.h. ea.

I 1007 0360 Creative Dramatics

Principles and techniques applied in classroom, theater and speech therapy programs; the mental, physical and emotional levels of children; planning and presenting demonstrations with children. 2 s.h.

I 1007 0365 Stage Technique: Dance

Dance encountered in period plays, including the galliard, pavane, minuet and other Elizabethan, Jacobean, Georgian and 19th Century dances (generally offered as one of three modules with I 1007 0366 and 0367). 1 s.h.

Prerequisite: I 1007 0122, 0222.

I 1007 0366 Stage Technique: Combat

Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, epee, cudgel and staff among others (generally offered as one of three modules with I 1007 0365 and 0367). 1 s.h.

Prerequisite: I 1007 0122, 0222.

I 1007 0367 Stage Technique: Mime

Fundamentals of the art of classic mime including basic body controls and movements (generally offered as one of three modules with I 1007 0365 and 0366).

Prerequisite: I 1007 0122, 0222.

1 s.h.

I 1007 0370 Costume Construction

Constructing costumes and accessories for the stage; techniques of cutting and sewing clothing; selection of fabrics in terms of weight, texture, color and drape; lecture and workshop. 2 s.h.

I 1007 0381 Theater Administration and Audience Development

A study of the initiation, development and continuing operation of theatrical enterprise including methods of finance, budget and contract and methods of audience research and development. 3 s.h.

Prerequisite: I 1007 0100, I 1007 0122, I 1007 0150.

I 1007 0391 Play Writing

The creation of an original playable script suitable for production. The cause to effect play will be investigated as well as newer trends in theater. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theater. 3 s.h.

I 1007 0403 Independent Study

Provision for the student to develop projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1-3 s.h.

I 1007 0407 Summer Theater Production—Technical

Practical experience as a member of a professional, semi-professional or educational theater on or off campus. The student works as a technician or as an assistant to the designer or producer.

7 s.h.

Prerequisite: Admission by departmental approval.

I 1007 0408 Theatrical Experience: The Informed Audience

A theater studies course, designed for both the casual theater-goer and the theater major. Students will attend a series of live performances on and/or off campus after preliminary investigation and discussion with the group leader. Follow-up in-person sessions with the play's production team permits an examination of the several talents, methods and contributions of the playwright, director, designer, actor, technician and producer.

3 s.h.

I 1007 0409 Summer Theater Production—Acting

Practical experience as a member of a professional, semi-professional, or educational theater on or off campus. The student works as an actor, or as an assistant to the director, designer or producer.

7 s.h.

Prerequisite: Admission by department approval.

I 1007 0410 Theater History: Restoration to Modern

Plays and playwrights of the periods, theater architecture, scenery, costuming, styles of acting and presentation; oral reports, lectures and demonstrations.

2 s.h.

I 1007 0411 Theater History: Classical to Elizabethan

The development of theater; plays and playwrights, theater architecture, scenery, costuming, acting styles and presentation of each period.

3 s.h.

I 1007 0425 Characterization

The actor will learn to extend his range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners, and mores of other periods affect behavior. Exercises in animal and object controls and in using adjustments; application in scenes.

3 s.h.

Prerequisites: Acting III, I 1007 0322.

I 1007 0430 Play Direction II

Advanced play direction including selection of the style of production, period plays and the director's relationship to the cast; each participant produces a play for an audience.

3 s.h.

Prerequisites: I 1007 0222, 0330.

I 1007 0435 Dramatic Workshop

An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theater in a "works-in-progress" atmosphere. Material will be drawn from the full spectrum of theater.

3 s.h.

Prerequisite: Two courses in directing and/or acting.

I 1007 0436 Dramatic Workshop II

A continuation of dramatic Workshop providing advanced research, exploration and performance for acting-directing students engaged in experimentation with various modes such as readers' theater, story theater and environmental theater. The student will include problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.

3 s.h.

Prerequisite: Two courses in directing and/or acting.

I 1007 0438 Producing the Musical Comedy

Production styles, techniques and dramatic conventions used in the musical theater as seen in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical. 3 s.h.

Prerequisites: I 1007 0150, I 1007 0330.

I 1007 0445 Advanced Stage Design

Develops advanced scene design skills with particular attention to design in non-proscenium production. 3 s.h.

Prerequisite: I 1007 0150, I 1007 0242.

I 1007 0455 Fundamentals of Stage Lighting

The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium. 3 s.h.

Prerequisites: I 1007 0150, 0251 or consent of the instructor.

I 1007 0460 Advanced Creative Dramatics: The Arts in Teaching

Arousing and directing creative abilities in students; assisting other teachers in applying dramatics, music, art and dance in presentation of various subjects. 3 s.h.

Prerequisite: I 1007 0360.

I 1007 0470 History of Costumes

The evolution of costume and the development of tailoring, social, economic and political influences on silhouette and ornamentation. For advanced students of costume design or construction. 2 s.h.

Prerequisite: I 1007 0270.

I 1007 0475 Advanced Problems in Costume Design

Costume design for theater, opera, dance and film. Students design costumes for each media with emphasis on the various styles and problems. 3 s.h.

Prerequisites: I 1007 0370, I 1007 0270, I 1007 0470.

I 1007 0478 Stage Makeup Seminar

A demonstration laboratory in planning and executing corrective middle-age, old age, stylized and other creations; three dimensional makeup with crepe hair, latex, putty and dermawax; make-up crew supervision. 3 s.h.

Prerequisite: I 1007 0278 and consent of the instructor.

I 1007 0490 Internship in Theater

Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center or program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement

Prerequisite: Departmental approval.

I 1008 0100 Man: His Body and Its Expression

The physical body; mind-body relationship; the meaning of body structure and movement in relationship to non-verbal communication. 2 s.h.

I 1008 0101 Movement and Rhythm

Develops each student's capacity for natural, coordinated movement. The student discovers basic locomotor and axial movements. 1 s.h.

I 1008 0141, 0142 Modern Dance Technique—Beginning I, II

Introduction to modern dance; techniques and composition; developmental exercises; the relationship to movement and sound and space patterns. 2 s.h. ea.

Prerequisite: Taken serially.

I 1008 0143 Modern Dance Technique Beginning I (Extended)

Designed for the student who has completed I 1008 0141 but needs more skill development before proceeding to I 1008 0142. Permission of instructor. 2 s.h.
Prerequisite: I 1008 0141.

I 1008 0144 Modern Dance Technique Beginning II (Extended)

Designed for the student who has completed I 1008 0142 but needs more skill development before proceeding to I 1008 0241. 2 s.h.
Prerequisite: I 1008 0142.

I 1008 0161 Dance Choreography—Beginning

Dance choreography in the traditional idiom with emphasis on the elements of dance composition. 2 s.h.

I 1008 0201 Advanced Movement and Rhythm

A more intense study of the rhythmic structure of movement is given with the use of percussion instruments. 1 s.h.

I 1008 0210 History of Dance

Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society. 2 s.h.

I 1008 0230 Creative Dance for Children

Teaching materials, movement exercises and games; simple folk and singing games and percussion activities. 2 s.h.

Prerequisite: I 1008 0142, I 1008 0161.

I 1008 0233 Dance and Sculpture

The concepts of space, form and energy in relation to sculpture and dance; the cultural conditioning of attitudes about space, form and use of energy. 3 s.h.

I 1008 0240 Modern Dance

An introduction to the techniques and composition of modern dance; developmental exercises, the relationship of movement and sound patterns, a group improvisation as a means of approaching dance composition. 1 s.h.

I 1008 0241, 0242 Modern Dance Technique—Intermediate I, II

A wide range of movement techniques: study of dance form styles; style and personality group improvisations as approaches to dance composition. 2 s.h. ea.
Prerequisite: I 1008 0112, Intermediate Dance taken serially.

I 1008 0243 Modern Dance Technique Intermediate I (Extended)

Designed for the student who has completed I 1008 0241 but needs more skill development before proceeding to I 1008 0242. 2 s.h.
Prerequisite: I 1008 0241.

I 1008 0244 Modern Dance Technique Intermediate II (Extended)

Designed for the student who has completed I 1008 0242 but needs more skill development before proceeding to I 1008 0441. 2 s.h.
Prerequisite: I 1008 0242.

I 1008 0253, 0254 Dance Technique—Jazz I, II

An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art. 2 s.h.

Prerequisite: 2 semester hours of modern dance, Jazz Technique taken serially.

I 1008 0261 Dance Choreography—Intermediate

Dance choreography with emphasis on small group works and solos. 2 s.h.
Prerequisite: I 1008 0161.

I 1008 0265 Dance Improvisation

Basic skills and problems in dance improvisation. No previous improvisational experience necessary and may be taken by a dancer at any technical level. 2 s.h.

I 1008 0280 Dance Practicum**I 1008 0281 Dance Practicum**

Practical work in dance production: dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be taken more than once. PASS/FAIL ONLY: $\frac{1}{2}$ s.h. ea.
Prerequisite: Permission of the instructor.

I 1008 0325 Methods and Materials for Teaching Dance

Theory, methods and materials for the teaching of dance and movement, pre-school through high school; lesson planning, unit planning and curriculum development.

Prerequisite: I 1008 0142, 0242, 0161. 2 s.h.

I 1008 0333 Dance and the City

Explores how man's experiences in the city affect attitudes, body structure, ability to move, studies community movement patterns as seen in ceremonies, rituals, parades, festivals, folk dancing, and the like. Some attention will be given to the present and future needs of our cities for shared movement experiences. 3 s.h.

I 1008 0345 Dance Technique—Ethnic

The distinctive techniques customarily related to specific racial and cultural groups. The groups' studies will vary from semester to semester. This course may be taken more than once. 2 s.h.

I 1008 0351, 0352 Dance Technique—Ballet I, II

An introduction to ballet technique. 2 s.h.

Prerequisite: 4 semester hours of modern dance or consent of the instructor.

I 1008 0353 Dance Technique—Ballet III

Advanced technique forms with presentations by authorities from various ballet schools. 2 s.h.

Prerequisite: I 1008 0352 and permission of instructor.

I 1008 0403 Independent Study

Provision for the student to develop projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1-3 s.h.

I 1008 0441, 0442 Modern Dance Technique—Advanced I, II

Advanced dance forms with presentations by authorities from the Graham and Nicolais schools among others. 2 s.h. ea.

Prerequisite: 6 semester hours of modern dance.

I 1008 0443 Modern Dance Technique Advanced I (Extended)

Designed for the student who has completed I 1008 0441 but needs more skill development before proceeding to I 1008 0442. 2 s.h.

Prerequisite: I 1008 0441.

I 1008 0473 Dance Therapy

Dance as therapy; reaching the emotionally disturbed or tense child on a non-verbal level; relaxation through dance experiences. 2 s.h.

Prerequisite: Consent of the instructor.

I 1008 0480 Dance Production

Responsibilities of the dancer, choreographer, artistic director, musician and

technician in dance production; practical group experience.
Prerequisites: I 1008 0161 and 6 semester hours of modern dance.

2-3 s.h.

I 1008 0485 Dance Repertoire

Dancing, choreographing, or providing technical assistance for a repertory company activity. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved. 3 to 7 s.h.
Prerequisite: By auditions.

I 1506 0100 Fundamentals of Speech

Speech activities including oral interpretation and public speaking; emphasis on development of clear, pleasing diction; additional practice in the speech laboratory. Satisfies the speech requirement for teacher certification or communication requirements.

3 s.h.

I 1506 0103 Voice and Speech Improvement

Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For Speech and Theater majors and minors; others by consent of the instructor.

3 s.h.

I 1506 0104 Phonetic Study of Speech Sounds

Intensive study of the manner and place of articulation heard in American English, use of International Phonetic Alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.

3 s.h.

I 1506 0105 Voice and Speech Improvement for Students with Foreign Speech Patterns

For students requiring intensive training in English as a second language; work on voice and speech problems; comparative phonetic analysis of native languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. Satisfies teacher certification or communication requirements.

3 s.h.

I 1506 0160 Oral Interpretation of Literature

Classroom performances followed by informal critiques and the development of a repertory. Satisfies teacher certification or communication requirements.

3 s.h.

I 1506 0234 Fundamentals of Public Speaking

Preparing and delivering effective, informative, persuasive and entertaining speeches; addressing the class, entering into formal critiques and moderating one program. Satisfies teacher certification or communication requirements.

3 s.h.

I 1506 0271 Interpersonal Communication I

An examination of the basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations. Exploration of personal communication patterns as they affect self-perception and the perception of others.

3 s.h.

I 1506 0272 Interpersonal Communication II

The participants will examine current literature in the field of interpersonal communication and the relationship of the theory to their own communication experiences both in and out of the class.

3 s.h.

Prerequisite: I 1506 0271.

I 1506 0302 Practicum in Speech Improvement

Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self-motivating materials for junior high and high school; for all Speech and Theater majors planning to teach. Three class hours plus one hour for observation and practice.

3 s.h.

Prerequisites: I 1506 0103, 0104, 0160 and 0234.

I 1506 0331 Public Speaking: A Rhetorical Approach

A study of modern speech practice through classical rhetorical theory; primary sources and definitive contemporary works; analytical study of representative speeches; some opportunity to apply theory. 3 s.h.

I 1506 0334 Contemporary Public Address

A study of prominent speakers and their influence on current issues and events. 3 s.h.

I 1506 0360 Advanced Oral Interpretation of Literature

The study through performance of selected styles, genres and periods of literature; specialized skills of oral interpretation. 3 s.h.

Prerequisite: I 1506 0160.

I 1506 0363 Readers Theater

A focus upon the close union of interpretation of literature and theater. Adaptation and editing of the various genres of literature. Participation in public performances of Readers Theater. 3 s.h.

Prerequisite: I 1506 0160, I 1007 0122.

I 1506 0374 Group Processes

Focus upon the Affective Domain of a group's Function. The study of such variables as cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction. 3 s.h.

Prerequisite: I 1506 0271.

I 1506 0375 Non-Verbal Communication

An investigation of non-linguistic system of the communication experience. Effects of such non-verbal aspects (Physical behavior, spatial relationships, context, environment, etc.), upon the sending and receiving of verbal messages. 3 s.h.

Prerequisite: I 1506 0271, I 1007 0122, I 1506 0374.

I 1506 0402 Advanced Practicum in Speech Improvement

More intensive, supervised practice in the improvement of voice and speech patterns in the College Speech Laboratory and with foreign student practice groups; students spend two hours in lab and one hour in seminar each week. 2 s.h.

Prerequisite: I 1506 0302 and consent of the instructor.

I 1506 0403 Independent Study

Projects pursuing individual needs. The proposals must be submitted for departmental approval prior to registration for the course. 1-3 s.h.

I 1506 0407 Methods in the Teaching of Speech and Dramatics

Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction, integration of speech with other fields. For Speech and Theater majors; others by consent of the instructor. 3 s.h.

I 1506 0414 History of British Public Address

Survey beginning with the Cromwellian period and continuing through World War II: the times, issues and speakers. 3 s.h.

I 1506 0415 History of American Public Address

Leading speakers from Colonial times to the present emphasizing the speaker's role in the course of American history. 3 s.h.

I 1506 0435 Speech Arts Activity

Credit is given for supervised speech arts activity. Consent of department chairman required. Credit by arrangement

I 1506 0438 Seminar in Persuasion and Social Control

Uses and applications of persuasion in various fields of social activity; mass media in education, business, religion and politics. 3 s.h.

Prerequisite: I 1506 0234.

I 1506 0441 Group Discussion and Leadership

Principles of democratic discussion and methods of guiding and participating in informal group discussion and public discussion; the techniques and uses of parliamentary procedure. 3 s.h.

I 1506 0442 Argumentation and Debate

Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence and oral techniques; organization and coaching of school forensic programs; practice and experience in argumentation and debate on current, significant issues. 3 s.h.

I 1506 0461 Choral Speaking

Interpreting literature through a speaking choir; materials suitable for group reading, the application of this form at various grade levels; preparation of selections suited to the student's interest. 2 s.h.

I 1506 0478 Seminar in Communication Theory

A synthesis of Communication Theory design to present a unified perspective of the discipline. 3 s.h.

Prerequisite: All courses required for the Communication Theory student.

I 1506 0490 Internship in Speech Communications

Upper-class undergraduate students may pursue a major portion of their studies under the supervision of an experienced professional practitioner as an assistant in active, successful speech activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. 4-16 s.l.

Prerequisite: Departmental approval required.



SCHOOL OF HUMANITIES

Wolfgang B. Fleischmann, Ph.D., Dean

Academic Advisors: Ruben C. Arango, M.A., Peter M. Donovan, M.A.

The School of Humanities includes the Departments of Classics, English, French, German and Russian, Linguistics, Spanish and Italian, and Philosophy and Religion. It was formally established by Board of Trustees action in January of 1970 and ratified its Constitution which allows for student-faculty governance at all levels, in September of that year.

Three aims are central to the School's concern: to provide concentrations in the various disciplines through specialized training, to accommodate students' interdisciplinary interest, and to offer the College as a whole those learning opportunities associated with humanistic studies.

Toward the fulfillment of these aims, curricular revision is in progress. For the potential specialist or teacher, major programs in incorporated departments will continue and have been augmented, as is the case for majors in General Humanities, Italian language and literature, and linguistics. In most disciplinary majors, course options have been considerably broadened (see individual department entries, below), for concentrants.

Every Department in the School is concerned with presenting its discipline in exciting ways for purposes of general education. New courses of foreign and Occidental literatures in translation, the planning—together with the Schools of Educational and Community Services and of Social and Behavioral Sciences—of a major program in Latin American Studies (see program in Transcultural Studies, School of Social and Behavioral Sciences) and literature courses in the Afro-Asian field are cases in point.

The School occupies Partridge Hall, a modern classroom and faculty office facility. The building permits the Dean and a faculty of over 100 to be housed in close proximity to student and faculty lounges and classrooms. Both the **Montclarion** and **Quarterly** are advised by School of Humanities faculty.

PROGRAM IN GENERAL HUMANITIES

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, the alternative ways in which man has seen himself in the past and sees himself today. In their concern for the articulation of an authentically human way of being, such studies function as a critical agent of those approaches which tend to dehumanize man. Among social, scientific, philosophical and religious studies, in literary and artistic expressions, the Humanities seek the common awareness of the human problem and the varying attempts at its solution.

Since the perspective of the Humanities is interdisciplinary, the program is transdepartmental, its faculty selected from the many disciplines which share this common concern. In order to assure this perspective, the program is supervised by a committee with representation from areas of literature, language, philosophy, religion, the arts, the social sciences, history, mathematics and science.

The program has been designed so that, in addition to the general approaches to the matter and methodology of the Humanities in the core curriculum, the student will have the opportunity to exercise personal selectivity in planning a concentration from the total range of College offerings.

The major in General Humanities is recommended for students with broad interest in liberal arts. As a double major it offers an ideal complement for major specialization in such areas as the social sciences, history, literature, the languages, the sciences and the arts.

General Humanities Major

I. Perspectives in the Humanities: The Core Curriculum

A.	The Contemporary Perspectives	semester hours
J 4903 0101	Man: the Contemporary Search.....	3
J 4903 0151	Inquiry in the Humanities.....	3
B.	Historical and Transcultural Perspectives	
J 4903 0201	Man: the Historical Search I.....	3
J 4903 0202	Man: the Historical Search II	3
J 4903 0251	Man without Boundaries	3

II. Concentration in the Humanities..... 15

Each major, in cooperation with an adviser and the General Humanities Committee, will plan an area of concentration from the total offerings of the College. The concentration is to be humanities-oriented and interdisciplinary in structure.

III. Senior Humanities Seminar..... 4 REQUIRED TOTAL 34

Humanities

Course Descriptions

J 4903 0101 Man: the Contemporary Search

An interdisciplinary inquiry into the contemporary awareness of the problem of man.
3 s.h.

J 4903 0151 Seminar: Inquiry in the Humanities

An introduction to the methodologies and modes of interpretation in the Humanities. Students will concentrate on one contemporary problem or theme, approached from an interdisciplinary perspective.
3 s.h.

J 4903 0201 Man: the Historical Search I

The contemporary problem of man, approached from an historical perspective through selective, rather than chronological, study of seminal moments from ancient to Renaissance in evolution of human consciousness of problems of being human.
3 s.h.

J 4903 0202 Man: the Historical Search II

The study of seminal moments, from Renaissance to 20th century, in the evolution of human consciousness of problems of being human.
3 s.h.

J 4903 0251 Man Without Boundaries: The Transcultural Perspective

A comparative, interdisciplinary study of the transcultural awareness of the problem of man and the human condition.
3 s.h.

J 4903 0480 Independent Study in General Humanities

Directed independent study and research in General Humanities. May be elected in lieu of 4903 499, Senior Humanities Seminar, in years when the Seminar is not being offered.
1-4 s.h.

Prerequisite: Senior standing in General Humanities Major.

J 4903 0499 Senior Humanities Seminar

A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem rising from his concentration.
4 s.h.

Other humanities courses to be used as GER electives are listed with the 490 prefix under the following departmental headings: Classics, English, French, German/Russian and Spanish/Italian. All 4903 offerings are taught in the English language.

DEPARTMENT OF CLASSICS

Professor: Kelly, Chairman
Assistant Professor: Renner

Classical studies provide an excellent foundation for careers in law, diplomacy, civil service, education, journalism, religious ministry, archaeology, and many other professions. The Department of Classics offers three major programs: (1) *Classics* — involves study of both Greek and Latin (2) *Latin* (3) *Latin-Teacher Education* — leading to teacher certification in New Jersey. By taking 18 credits in the Classics Department, students will achieve a minor in classics to supplement their major program.

Students majoring in history, English, philosophy, religion, linguistics, general humanities, art history, and the modern foreign languages will profit from a knowledge of Greek and Latin. Their familiarity with original source material will shed new light on their own specializations.

The Classics Department offers a variety of courses both in the original languages and in translation. Elementary courses enable the student to begin the study of Latin and Greek. The courses taught in English are of interest to the general student and serve to fulfill the Humanities component of the General Education Requirement.

Classics Major

Requirements	semester hours
1. J 1110 0101 and 0112 Beginning Greek I and II.....	6
2. Two Greek Literature Courses (J 1110); these courses are taught in a three year cycle.....	6
3. Four Latin Literature Courses (J 1109); these courses are taught in a four year cycle.....	12
4. One course in Latin Linguistics (J 1109 0410 or J 1109 0445).....	3
5. Two electives from other courses offered by the Department (J 1109 , J 1110 or J 4903).....	6
	REQUIRED TOTAL
	33

Latin Major

Requirements	semester hours
1. J 1109 0410 Advanced Latin Grammar.....	3
J 1109 0445 Linguistic History of the Latin Language.....	3
2. J 1110 0101 and 0112 Beginning Greek I and II.....	6
3. Six Latin Literature Courses (J 1109); these courses are taught in a four year cycle.....	18
4. One elective from other courses offered by the Department (J 1109 , J 1110 , or J 4903)	3
	REQUIRED TOTAL
	33

Latin Major—Teacher Education

Requirements	semester hours
1. J 1109 0410 Advanced Latin Grammar.....	3
J 1109 0445 Linguistic History of the Latin Language.....	3
2. Six Latin Literature Courses (J 1109); these courses are taught in a four year cycle	18
3. Three electives from other courses offered by the department (J 1109 , J 1110 , or J 4903) Beginning Greek is especially recommended	9
	REQUIRED TOTAL
	33

Students desiring teacher certification will apply to the Teacher Education program in their Sophomore year and will follow the professional sequence determined by the School of Education. In the Department of Classics they will also take J 1109 0419 Methods of Teaching Latin.

Minor Programs

1. Classics

Students will take 18 credits in the Classics Department. All the work may be done in Classical Humanities courses (J 4903) or the student may in consultation with the Department Chairman pursue work in the Greek or Latin Languages (J 1109 and J 1110).

2. Latin

Students will take 18 credits in Latin language and literature (J 1109). Courses will be determined in consultation with the Department Chairman.

3. Greek

Students will take 18 credits in Greek language and literature (J 1110). Courses will be determined in consultation with the Department Chairman.

4. Second Teaching Field in Latin

Two courses in language study are required, viz. Advanced Latin Grammar (J 1109 0410) and Linguistic History of the Latin language (J 1109 0445). Students will elect six more courses from the offerings in Latin literature (J 1109).

Classics

Course Descriptions

GREEK:

J 1110 0101 and 0112 Beginning Greek I and II

The grammatical fundamentals of Ancient Classical Greek to prepare the student to read Greek literature. 3 s.h. ea.

J 1110 0261 Greek New Testament

Selected readings in the Greek Koine from the Bible.

3 s.h.

J 1110 0262 Greek Epic Poetry

Selected readings from the Iliad and/or Odyssey and the ancient summaries of other poems in the Trojan Cycle of the Epic. Supplementary reading in translation. Study of the "homeric question." 3 s.h.

J 1110 0310 Greek Composition

The finer points of style and grammar and an ability to handle the Greek idiom, as much as possible, in a non-translation situation; readings of selected Greek literary and non-literary models. 3 s.h.

Prerequisite: Permission of the instructor.

J 1110 0351 Attic Orators

Greek history and thought from the Attic Orators Antiphon, Andocides, Lysias, Isocrates, Isaeus. Supplemental readings in the original or translation from Demosthenes. 3 s.h.

J 1110 0352 Greek Tragedy

The origin and development of this most important of all Greek genres through original readings from the major representatives of this form: Aeschylus (Persae or Prometheus Vinctus), Sophocles (Antigone, Ajax or Philoctetes), Euripides (Alcestis or Medea, Bacchae or Hippolytos.) Readings in literary translations. Attention to influences upon other literatures. 3 s.h.

J 1110 0361 Greek Historians

Greek history and historiography through intensive but selected readings from the two major historians Herodotus and Thucydides. Supplementary readings from Xenophon's Anabasis or Hellenica. Supplementary readings in translation. 3 s.h.

J 1110 0451 Greek Philosophers

The development of Greek philosophy from rapid readings in translation and original of Pre-Socratics. Emphasis on Platonic dialogues (Apology, Phaedo, Republic) and Aristotle's essays (Poetics, et al.) Supplementary readings in translation. 3 s.h.

J 1110 0452 Greek Lyric Poets

Readings from the corpus of lyric, iambic and elegaic poets; development in theme, technique, meter; influences on later literatures. 3 s.h.

J 1110 0454 Hesiod

Readings from the Theogony and the Works and Days. Study of the archaic period of Greek civilization. The Structure and meaning of the Hesiodic literature. 3 s.h.

LATIN:**J 1109 0101 and 0112 Beginning Latin I and II**

Introduction to the structure of the Latin language through observation of the pattern as it appears in sententiae and passages of connected reading material. Acquisition of basic language skills through practice of the patterns of the language. 3 s.h. ea.

J 1109 0121 and 0132 Readings in Latin Prose & Poetry

Latin selections arranged by theme to present the development of Roman history and civilization from Aeneas to Augustus; opportunity to observe the structure of the Latin language in passages of connected reading. 3 s.h.

J 1109 0141 Latin Grammar

Structural presentation and review of the patterns of the Latin language with emphasis upon practice. 2 s.h.

J 1109 0152 The Epic and Vergil

Depth study of the Aeneid, Books I-IV. Readings from VII-XII. 3 s.h.

J 1109 0154 Ovid

The Metamorphoses as a primary source of information about Roman religion, ritual and myth; selections from Ovid's other works in original and translation; observation of his role as a model in later literature. 3 s.h.

J 1109 0209 Oral Latin

Pronunciation, phrasing, reading aloud; intonation patterns in questions-answers, in conversations extracted from the authors; rhetorical devices in orations, rhythm and meter in poetry; reading aloud as technique for comprehension; use of records and tapes. 2 s.h.

J 1109 0251 Roman Letter Writing

The public figure of the Late Republic and the private citizen of the Silver Age seen through the letters of Cicero and Pliny. 3 s.h.

J 1109 0252 Roman Drama

Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama. 3 s.h.

J 1109 0254 Roman Lyric Poetry

Selections from the lyrics of Catullus and Horace, with particular attention to the differences in theme, content, metrics. 3 s.h.

J 1109 0261 Roman Biography

The biography as a genre; selected passages from Sallust, Tacitus, Suetonius; contrasting these works with autobiographical evidence from the letters and excerpts of other Latin authors.

3 s.h.

J 1109 0284 Cicero and Ancient Philosophy

Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world.

3 s.h.

J 1109 0310 Latin Composition

Development of Latinity in writing; practice in imitation of word choice, word order and style of Latin authors; translation of contemporary material into period Latin.

2 s.h.

J 1109 0319 Materials for Teaching Latin

Examination, evaluation and collection of audio-visual materials; a preparation of bibliographies, libraries orders, bulletin boards; guidelines for field trips, projects and the Latin Club.

2 s.h.

J 1109 0351 Roman Historians

The history of Rome through the writings of Livy and Tacitus.

3 s.h.

J 1109 0352 Roman Satire

Reading of Horace and Juvenal and discussion of the satire as a genre of reporting.

3 s.h.

J 1109 0354 The Elegy

The Roman elegiac poets, Tibullus and Propertius; the elegy as a form of poetic expression. Comparison of the elegy in Latin and English literature.

3 s.h.

J 1109 0361 Caesar: The End of The Republic

Reading from De Bello Gallico and De Bello Civilis with attention to Caesar the General, the Statesman, the Man of Letters; the turbulence attending the end of the Republic.

3 s.h.

J 1109 0375 Study Abroad

Approved study-travel program at selected universities, classical sites, museums (Also listed as J 4903 0375).

Credit by evaluation

J 1109 0410 Advanced Latin Grammar

Descriptive analysis of Latin grammar based on generative-transformational linguistics; examples from the classical authors; practice in writing original Latin prose.

3 s.h.

J 1109 0419 Methods of Teaching Latin

History of methodology, new approaches and techniques, evaluation of texts construction of lesson plans, reviews, tests, and the development of a Latin curriculum.

3 s.h.

J 1109 0445 Linguistic History of the Latin Language

Latin and its position in the Indo-European family; the evolution from the spoken to the literary, to the Vulgar, to the Christian; characteristics of the periods exemplified in the language; transitional features in the phonology, morphology, and syntax.

3 s.h.

J 1109 0451 Latin of the Middle Ages

The transition of the language from Classical to Romance; literature of church and state in the evolution of modern western ideas.

3 s.h.

J 1109 0452 Augustine

Selection from the Confessions, the City of God and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire.

3 s.h.

J 1109 0454 Lucretius and Ancient Science

Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas.

3 s.h.

J 1109 0470 Senior Seminar

Independent study pursued on a theme in depth by contractual arrangement. Prerequisite: Permission of the instructor.

3 s.h.

J 1109 0478 Advanced Latin Readings

Reading selections, in the original, representing an author, a genre, a period, or a theme complementing previous course offerings; critical reading a prime function. Prerequisite: Permission of the instructor.

2 s.h.

Humanities Elective Credits**J 4903 0154 Ovid**

The Metamorphoses as a primary source of information about Roman religion, ritual and myth; selections from Ovid's other works in original and translation; observation of his role as a model in later literature.

3 s.h.

J 4903 0181 Classical Archaeology

The science of evaluating a culture through observation and analysis of sites and monuments. Problems of dating, types of materials, function of buildings and decorations. Illustrated lectures, readings and discussion in addition to museum field trip.

3 s.h.

J 4903 0182 Classical Roots of English Vocabulary

Greek and Latin roots, prefixes, suffixes and principles of word formation give the student access to meaning and usage associated with his subject matter interest. Practical vocabulary exercises.

3 s.h.

J 4903 0183 Classics in the Cultural Media

Classical Motif in today's world. Field trips to Newark Museum (Roman Glass); Metropolitan Museum, New York (Greek vases); University Museum, Philadelphia (Etruscan); The Cloisters, New York (Medieval); American Numismatic Society, New York. A film, play, symphony, opera or ballet (as available). Greek Revival and Roman architectural borrowings in public and private buildings.

3 s.h.

J 4903 0252 Roman Drama

Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama.

3 s.h.

J 4903 0273 Epic Poetry in Classical Antiquity

The Iliad, Odyssey and Aeneid in English translation; ancient and modern literary criticism of Homer and Vergil; oral vs. literary epic; history, folklore and saga in the ancient epic; basic epic themes (man as hero, fate, man and the gods, etc.); Homeric and Virgilian influence on subsequent literature.

3 s.h.

J 4903 0281 Greek Civilization

Greece's contribution to Western Civilization studied through history, literature, architecture, art and sculpture.

3 s.h.

J 4903 0282 Roman Civilization

Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own; the planting of Roman culture and civilization along the route of the Roman army; monuments and relics as testimony to the Roman penetration and influence.

3 s.h.

J 4903 0283 Greek and Roman Oratory

Oratory as a political tool; training of the orator; analysis of selected orations of Demosthenes and Cicero; influence of ancient oratory on public speaking; debate and argumentation.

3 s.h.

J 4903 0284 Cicero and Ancient Philosophy

Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world.

3 s.h.

J 4903 0285 Classical Mythology

The classical myths repeated in the literature and other media of the Western World. The origins of the myths studied through readings and art; interpretations of their meaning.

3 s.h.

J 4903 0352 Roman Satire

Reading of Horace and Juvenal and discussion of the satire as a genre of reporting.

3 s.h.

J 4903 0375 Study Abroad

Approved study-travel program at selected universities, classical sites, museums.
(Also listed as J 1109 0375)

Credit by evaluation

J 4903 0381 Africa in Classical Antiquity

The importance of Africa in the Greco-Roman world: economic, intellectual, political, and artistic contributions; Blacks and ancient institutions: army, theater, sport, government, slavery; Ancient attitudes toward race; Famous Africans of antiquity.

3 s.h.

J 4903 0382 Greco-Roman Colonization

A sequel to Greek Civilization and Roman Civilization with specialization in one geographic area: Magna Graecia, Greco-Roman Spain, Gaul, Turkey, the Balkans, Roman Britain, or Germany. Mini-courses elected singly or in combination.

1 s.h.

J 4903 0383 Women in Antiquity

The role of women in Greek and Roman society. Classical attitudes toward sexual behavior. Women in classical mythology. Famous and liberated women of antiquity.

3 s.h.

J 4903 0384 Introduction to Roman Law

The role of law in Roman history and society, the social fabric and family structure, women and the law, slavery, agreements and contracts, legal forms, legal fictions, and the on-going development of law, the law and social change, Roman law under Christianity and afterwards.

3 s.h.

J 4903 0385 Greek Tragedy

Selected plays of Aeschylus, Sophocles and Euripides read in English translation; origins of Greek drama, religion and myth in tragedy, the tragic hero, stage production, influence on modern literature.

3 s.h.

J 4903 0396 Ancient Historians

Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis; assessing authenticity and objectivity while discussing the art of historiography.

3 s.h.

J 4903 0452 Augustine

Selection from the Confessions, the City of God and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire. 3 s.h.

J 4903 0454 Lucretius and Ancient Science

Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas. 3 s.h.

J 4903 0470 Seminar in Classical Humanities

Topic to be selected according to interest and leadership potential and developed by an interdisciplinary approach. 3 s.h.

COMPARATIVE LITERATURE:**K 1503 0370 Seminar in Classical Literature (in English)**

Theme selected according to interest and leadership potential and developed by an interdisciplinary approach. 3 s.h.



DEPARTMENT OF ENGLISH

Professors: Dickson, Fleischmann, Hanson, Pettegrove, Petty, Radner
Associate Professors: Healey, Chairman; Barrett, Dell, Jacobs (B), McGee,
 Meranze, Mickelson, Miller, Paul, Prosky, Rich, Roberts, Schwegel,
 Spencer
Assistant Professors: Alper, Anand, Becker, Duggan, Furr, Gordon, Grieco,
 Khanna, Nash, Price, Rudy, Slocum, Steuhler, Stone
Instructors: Benediktsson, Brewton, Bronson, Jacobs (R), Johnson,
 Liebler, Lovasco, Schwartz

Students wishing to major in English must accumulate 33 semester hours of credit in this field, distributed as follows: 9 of prescribed courses; 12 of required courses equally distributed in American and English Literature listed below; 12 of free English electives. Students building a minor in English without teacher certification must accumulate 21 semester hours: 6 of the prescribed courses, 12 of the required courses, and 3 of free English electives.

English Major

I. Prescribed Courses		semester hours
An introductory genre course: K 1501 0160, 0162 or 0163.....		3
Myth and Literature K 1501 0260.....		3
The English Language or a course in the history of grammar or psychology of language (see 1505 offerings in both the English and Linguistics Departments)		3
II. Required Courses		
American Literature: two of the following		
K 1501 0225 Early American Literature		3
K 1501 0226 Literature of the American Renaissance		3
K 1501 0334 American Drama.....		3
K 1501 0336 American Literary Realism		3
K 1501 0337 Modern American Fiction		3
K 1501 0338 Contemporary American Fiction.....		3
English Literature: two of the following		
K 1501 0245 Middle English Lit. or K 1501 0244 Chaucer or K 1501 0401 Old English Language and Literature.....		3
K 1501 0246 Renaissance Lit. or K 1501 0353 Shakespeare's Comedies		3
K 1501 0354 Shakespeare's Tragedies or K 1501 0343 Milton.....		3
K 1501 0247 The Augustan Age		3
K 1501 0248 Form Sensibility to Romanticism		3
K 1501 0346 19th Century English Romantic Literature		3
K 1501 0347 Victorian Prose and Poetry		3
III. Other English Courses are electives.....		12
		REQUIRED TOTAL
		36

Students may use their electives to develop a special interest, or may distribute the 12 semester hours in whatever manner they choose among departmental areas of specialization in writing; in American, English or comparative literature; by periods or by genre. Advisors will help the students determine a good program.

TEACHER EDUCATION

Students desiring teacher certification in English must gain admission to the School of Education by meeting the requirements of that School and of the English Department. Prerequisites for admission to the Teacher Preparation Program in English and current requirements in the discipline for both a first and a second teaching field certificate are posted in the English Department—4th floor, Partridge Hall.

English

Course Descriptions

K 1501 0100 Writing Workshop

Tutorial instruction in basic writing and research skills, with meetings as often as required and over as long a period of time as may be necessary to bring a student's writing to the college communications requirement standard. 3 s.h.

K 1507 0103 Special Communication Skills

New motivational and audiovisual techniques in a program designed to help those with writing programs. Equivalent in aim to K 1507 0105. 3 s.h.

K 1507 0105 Composition and Literature

Instruction in basic writing skills and research, frequent writing assignments and a research paper. Satisfies the communications requirement in writing. 3 s.h.

K 1501 0106 Introduction to Literature

Reading and criticizing all forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. 3 s.h.

K 1507 0114 Practical Journalism I

Basic procedures and practices in a professional field; constructive use of and respect for the printed word; writing news and correcting copy for the Montclarion. 3 s.h.

K 1501 0139 Literature of Social Protest in America Since 1920

Novels, dramas and poetry of protest against social injustices in the United States since World War I; Sinclair Lewis, John Steinbeck, John Dos Passos, Carl Sandburg, Eugene O'Neill and James Baldwin. 3 s.h.

K 1501 0160 Art of Poetry

Problems of defining and evaluating poetry; representative discussion of selections illustrative of critical points; characteristics of different types of poetry. 3 s.h.

K 1501 0161 Short Story

Short stories of nineteenth and twentieth centuries as an evolving form with human and literary values. 3 s.h.

K 1501 0162 The Art of Fiction

The form and technique of representative works of fiction; close reading and discussion of the short story, the novella and the novel. 3 s.h.

K 1501 0163 The Art of Drama

Ways in which man expresses himself and his community through drama as a blend of word and gesture. 3 s.h.

K 1503 0172 Western World Literature

Selected literary masterpieces reflecting Western culture; universal themes, motifs, concepts, and the artistic forms in which they have been shaped. 3 s.h.

K 1503 0173 Eastern World Literature

Classics of Persia, India, China and Japan; attention given to modern writings. 3 s.h.

J 4903 0196 The Film

The particular characteristics of the American and European film as an art form; contributions of the screen writer, director, cameraman and actor, development of a critical vocabulary. 3 s.h.

K 1507 0198 Creative Writing

Recognition and development of one's best form and style through writing and criticism by professor and class.

3 s.h.

K 1507 0205 Advanced Writing Skills

Designed to provide students with the opportunity to develop advanced writing skills, the course stresses development of a personal writing style, adaptation of writing style to various subjects and audiences, and experimentation with different modes of exposition.

3 s.h.

K 1507 0210 Creative Writing: Drama

The nature of Dramatic dialogue; the problem of form; the part played by the script in creating a one-act play.

3 s.h.

Prerequisite: 1507 0198.

K 1507 0212 Creative Writing: Poetry

Techniques and fundamentals of writing poetry discussed and applied to student manuscripts.

3 s.h.

Prerequisite: K 1507 0198

K1507 0214 Practical Journalism II

Continuation of fundamentals of K 1507 0114 Practical Journalism, plus a focus on feature and editorial writing.

3 s.h.

Prerequisite: a basic course in journalism or comparable experiences.

K 1507 0215 Creative Writing: Prose

Fundamentals and techniques of writing prose, fiction, essays and autobiography applied to extensive individual projects.

3 s.h.

Prerequisite: K 1507 0198.

K 1501 0216 History of Journalism in America

The tradition examined through three stages: Colonial journalism, Pre-Civil War distinctively American journalism, and modern journalism itself and as affected by the development of mass media.

3 s.h.

K 1501 0225 Early American Literature

American Literature from the Puritans to Cooper, tracing the development of Colonial and Revolutionary thought and the beginning of America's cultural independence.

3 s.h.

K 1501 0226 Literature of the American Renaissance

Moby Dick and *The Scarlet Letter* included among the major works of masters of the American Romantic period: Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe.

3 s.h.

K 1503 0237 Science Fiction

Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.

3 s.h.

K 1501 0238 Afro-American Writers

Selected works of Afro-American writers, from Phillis Wheatley through Richard Wright; the aesthetic value; the political and social background, within the context of American literary history.

3 s.h.

K 1501 0239 Critical Trends in Twentieth Century America

Literary criticism and the history of ideas from 1900.

2 or 3 s.h.

K 1501 0240 English Literature I: Beginnings to the Seventeenth Century

A chronological study of the continuity and changes in English literature from its

beginnings to the middle of the seventeenth century. Careful analysis of representative works by major and minor authors will illuminate the distinctive characteristics of each literary period and illustrate the processes of change from period to period.

3 s.h.

K 1501 0241 English Literature II: Restoration to the Present

Continues the chronological study of English literature (see K 1501 0241, above) from the mid-seventeenth century to the present. May be taken independently of English Literature I, but may not be used to fulfill six-credit English literature requirement.

3 s.h.

K 1501 0244 Chaucer

Troilus and Criseyde, The Canterbury Tales and some of the minor poems in Middle English. No previous language training required.

3 s.h.

K 1501 0245 Middle English Literature

The historical and social context and the relation to continental medieval traditions examined in the literature of England from 1100-1400, with minor attention to Chaucer. Where appropriate, works read in Middle English.

3 s.h.

K 1501 0246 Renaissance Literature

Major non-dramatic writers of Elizabethan and early seventeenth century England whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period: Sydney, Llyl, Nashe, Greene, Donne and Browne.

3 s.h.

K 1501 0247 The Augustan Age (18th Century English Poetry and Prose)

Study of important works of English literature 1680-1745, including poetry, criticism, essays, fiction, and drama, within the literary, cultural, social and intellectual context of the age.

3 s.h.

K 1501 0248 From Sensibility to Romanticism

Study of important works of English literature 1745-1800, including poetry, criticism, philosophical prose, fiction and drama within the literary, social, cultural and intellectual context of the age.

3 s.h.

K 1501 0254 English Drama: Beginnings to 1642

From medieval origins to the closing of the theatre: miracles, mysteries, moralities through the development of Tudor and Stuart Theatre—exclusive of Shakespeare.

3 s.h.

K 1501 0260 Myth and Literature

A comparative study of selected Occidental and Oriental myths—their origins, meanings, and major archetypes and motifs; application of this background to an understanding of how myth and myth-making process function in literary works of art.

3 s.h.

K 1503 0266 African Myth and Literature

An exploration of the unique yet universal nature of the Sub-Saharan experience and vision through a study of selected African myths and literary works within the context of appropriate cultural, critical and theoretical backgrounds.

3 s.h.

K 1503 0272 Literary Modernism

A comparative study of major artistic movements as reflected in the literature of the twentieth century.

3 s.h.

K 1503 0274 Modern Drama: Ibsen to O'Neill

Representative plays studied for individual merit and for unique contributions to modern drama; critical insights and historical perspective as keys to understanding and appreciation.

3 s.h.

N 1505 0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians; the Germanic strains and morphology of Old and Middle English. 3 s.h.

K 1501 0294 Women Poets

Selected poets from Sappho through Emily Dickinson to Sylvia Plath. Readings in the psychology and sociology of women. 3 s.h.

J 4903 0296 The Contemporary Film

American and foreign films of outstanding merit; plot, theme, aesthetic standards, social attitudes and the personal statements of such directors as Bergman, Fellini, Antonioni. 3 s.h.

J 4903 0297 Literature and Sociology

Literary works as mirror and criticism of society, through sociologists from Comte to Reisman; individual vs. communal values, class conflict, conformity and protest, and the relationship of literary type and social structure. 3 s.h.

Prerequisite: 6 semester hours in English.

J 4903 0298 Literature and Psychology

The major modern depth psychologies—Freudian, Jungian, Adlerian; literary portrayal of human character and action in world literature; the quest for selfhood; the alienated individual; love and marriage; parents and children. 3 s.h.

Prerequisite: 6 semester hours in English or psychology.

(Can be taken for psychology credit.)

J 4903 0299 Literature and Art in the Western World

A theoretical and experimental examination of the relation between art and literature through a study of selected literary, art and musical compositions. 3 s.h.

K 1507 0313 Workshop Journalism I

Technical knowledge of K 1507 0114 and 0214 in routine use. Class and Montclarion office run by students, class set up as a news office, with blocked time available for ample time in the office. 3 s.h.

Prerequisite: a course in journalism and/or the consent of the instructor.

K 1507 0314 Workshop Journalism II

Further development of the work begun in Workshop Journalism I. 3 s.h.

Prerequisite: a minimum of two or more courses in journalism and/or the consent of the instructor.

K 1507 0315 Magazine Journalism

Researching, writing and placing feature stories in periodicals. 3 s.h.

Prerequisite: a course in journalism or the consent of the instructor.

K 1501 0324 American Poetry: To 1940

The poetry of Poe, Emerson, Longfellow, Whitman, Dickinson, S. Crane, Pound, Eliot, H. Crane, Sandburg, Frost, Hughes, and other selected poets. 3 s.h.

K 1501 0325 American Poetry: WWII to Present

Representative selections from the work of William Carlos Williams, Wallace Stevens, John Berryman, Sylvia Plath, Allen Ginsberg, Lawrence Ferlinghetti, John Ashberry, Charles Olson, Adrienne Rich, Robert Lowell, Ann Sexton, Theodore Roethke, Gwendolyn Brooks, James Wright and others will be studied. 2 s.h.

K 1501 0334 American Drama

Drama by American authors chosen for excellence or representation of a significant era or movement in the theater. 3 s.h.

K 1501 0336 American Literary Realism

Developments in realism; the works of James, Howells, Twain, S. Crane, Norris and Dreiser.
3 s.h.

K 1501 0337 Modern American Fiction

The artistic achievement and the place in literary history of S. Anderson, Hemingway, Faulkner, Dos Passos, Fitzgerald and Steinbeck.
3 s.h.

K 1501 0338 Contemporary American Fiction

Developments in American fiction from World War II to the present. Bellow, Ellison, Malamud, Mailer, Wright, Updike, O'Connor and Barth.
3 s.h.

K 1501 0343 Milton

Milton's juvenilia and prose selections leading to one of his major works.
3 s.h.

K 1501 0346 Nineteenth Century English Romantic Literature

The Romantic revolt of poets—Wordsworth, Coleridge, Shelley, Byron and Keats—and of essayists—Hazlitt, DeQuincy and Lamb.
3 s.h.

K 1501 0347 Victorian Prose and Poetry

Mid- and late-nineteenth-century responses to the emergence of modern British society; the prose writing of Carlyle, J. S. Mill, Ruskin, T. H. Huxley, Newman, Arnold and Morris; the poetry of Tennyson, Browning and Arnold.
3 s.h.

K 1501 0353 Shakespeare: Comedies and Histories

Shakespeare's vision of man as actor in the comic mode and roles of leadership; representative plays, their sources, typical devices and generic characteristics; textual problems; attention to context of Elizabethan society and the staging of the plays.
3 s.h.

K 1501 0354 Shakespeare: Tragedies and Romances

The tragic mode and the special vision of the later Romances.
3 s.h.

K 1501 0356 English Novel to 1900

Form and theme of the English novel through eighteenth and nineteenth centuries, judged by literary, social, moral and cultural criteria.
3 s.h.

K 1501 0364 Contemporary Poetry: Auden to Present

Distinctive poetry movements since the imagists; study in depth of representative poets; critical appreciation through comparison of diverse styles, themes and poetic theories.
3 s.h.

K 1501 0370, 1 English Independent Study

Open to any junior or senior who has developed a special interest, or who wishes to develop his scholarly interest, or to investigate some future course leading to graduate or vocational study. Ability to conduct independent study determined by responsibility and genuineness of interest.
3 s.h.
Prerequisite: Prior approval of department.

1501 0278 Speculative Fiction: Fantasy

The impossible and improbable in the imaginative fiction of non-worlds—exclusive f technological science fiction.
3 s.h.

1501 0372 Major Women Prose Writers

Significant relationships among the writings of not more than five women selected from Mme. de Staél, through Charlotte Brontë and Virginia Woolf, to Mary McCarthy and Susan Sontag—each work reflective of its particular era.
3 s.h.

1503 0374 Contemporary British and European Drama

Selected plays representing the vast diversity of the themes, values and dramatic

- techniques of selected dramatists of our times. 3 s.h.
- K 1503 0376 Modern European Novel**
Insight into the trends beginning about 1910 as they influenced the creative expression of such novelists as Gide, Hesse, Kafka, Woolf and others. 3 s.h.
- K 1503 0381 Comic and Satiric Modes**
A comparative study of the nature of devices such as irony, exemplified historically in the different genres. 3 s.h.
- N 1505 0384 The Grammars of English**
Review of traditional English grammar; introduction to new theories of grammar; the place of grammar in the teaching of rhetoric and composition. 3 s.h.
- N 1505 0385 Verbal and Non-Verbal Language**
Effects of language on human thinking, behavior and personality; recent studies of problems of verbal communications. 3 s.h.
- K 1501 0393 The Political Novel in the U.S. Since 1900**
Social Darwinism, Socialism, Communism, World War I, the Great Depression, World War II reflected in American novels having political themes as their dominant characteristic. 3 s.h.
Prerequisite: Survey course in one of the following: American Literature, American History, Sociology, Political Science.
- J 4903 0397 Biography**
Sources of biography in letters, diaries, memoirs; biographies from medieval England to contemporary Pulitzer Prize winners; changing concepts of form; revelations of the nature, character and varied destinies of personality. 3 s.h.
- J 4903 0399 Development of Black Thought**
An historical and critical analysis of black philosophical writings within the context of American thought; African, Afro-American and Afro-Caribbean black writers; their philosophical, psychological and ethical ideas; concepts of Afro-Americanism, Negritude, Afro-Saxonism, black power, accommodation and Pan Africanism, the presuppositions of black, Negro, colored and Afro-American thinking. 3 s.h.
Prerequisite: A course in American History of Philosophy.
- K 1501 0401 Old English Language and Literature**
Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of Pre-Conquest England. Recitation and reading in the original Old English. No previous language training required. 3 s.h.
- K 1507 0316 Reporting of Public Affairs**
Practical opportunity for journalism students to write news articles on local political activity. Report and analysis of specific duties and activities of local legislative and judicial officials. 3 s.h.
Prerequisite: One course in basic journalism writing or consent of instructor.
- K 1507 0407 Critical Writing**
Frequent essay writing applying the major traditional and contemporary theories of literature, singly and in combination, to selected literature as aesthetic structure. 3 s.h.
- K 1507 0410 Advanced Creative Writing: Drama**
Focusing on the writing of plays, both one-act and full-length traditional forms explored. Freedom to investigate new trends in the theatre. 3 s.h.
Prerequisite: K 1507 0210 and/or consent of instructor.

K 1507 0412 Advanced Creative Writing: Poetry

Advanced work in the writing of poetry.

3 s.h.

Prerequisite: K 1507 0212 and/or consent of the instructor.

K 1507 0415 Advanced Creative Writing: Prose

Advanced work in the writing of prose.

3 s.h.

Prerequisite: K 1507 0215 and/or consent of the instructor.

K 1507 0416 Interpretive Journalism

The structure, purposes and techniques of editorial and interpretative journalism; practice in writing editorials and critical reviews.

3 s.h.

Prerequisite: A basic course in journalism or comparable experience.

K 1501 0444 Seventeenth-Century English Poetry

Major currents; the schools of Donne and Jonson; the work of Marvell and Dryden.

2 or 3 s.h.

K 1501 0446 Literature of the Irish Renaissance Period

Background influences (symbolism and Irish mythology as sources for metaphors) to show the Irish expression of romanticism, naturalism, symbolism and realism. Particular contributions in various areas; Joyce, Shaw and Yeats.

3 s.h.

K 1501 0455 Restoration Drama

Etherege, Wycherley, Congreve, Vanbrugh and Dryden in relation to dramatic forms and conventions; production techniques of the era, three major innovations: comedy of manners, proscenium stage, the actress.

2 or 3 s.h.

K 1501 0454 Film and Society

A study of the motion picture as a force that reflects and molds social and moral attitudes.

3 s.h.

K 1501 0456 The Twentieth Century English Novel

Longer British fiction from Galsworthy to Kingsley Amis, Joyce, Forster, Conrad, Lawrence and A. Huxley.

3 s.h.

J 4903 0460 Seminar in Creative Mythology

An exploration of the broad humanities import of mythology and the archetypal and related theories in such areas as literature, the arts, philosophy, religion, science and the social sciences as a basis for creative participation in these disciplines and the continued self-discovery and creative evolution of each participant.

3 s.h.

Prerequisite: K 1501 0260 or permission from instructor.

K 1503 0463 History of Criticism

The major figures in literary criticism from classical to modern times; Plato, Aristotle, Horace and Longinus; their "imitators" and "interpreters" in the Renaissance and Neo-Classical periods; innovations of the Romantics and of modern critics such as T. S. Eliot and I. A. Richards.

3 s.h.

K 1503 0464 Modern Poetry: French Symbolists to T. S. Eliot

Representative Symbolist, Georgian and Imagist poets; theories and principles as basis of modern poetry.

2 or 3 s.h.

K 1501 0471 Teaching English in the Secondary School

An organic approach to the problems of communicating both the disciplines and the human dimensions of English as a subject in the classroom.

3 s.h.

Prerequisite: 18 credits in English and the preliminary field experience completed or concurrent.

K 1505 0474 Modern Drama on Film

Outstanding film versions of great plays from the American and European Theatre; theatre versions of play compared to film version. 3 s.h.

K 1501 0475 Study-Travel

Varied intellectual and cultural experiences in Britain. See current course offerings for specific opportunities and probable prerequisites. Credit by evaluation

N 1505 0490 Seminar in Linguistics

The linguistic approach to literary criticism; reading and group discussion, linguistic evaluations of literature; tests of such evaluations against the archetypal approach; linguistic approach to decoding the language of the artist. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Linguistics. Enrollment limited.

K 1507 0491 Seminar in Writing

Individual attention and instruction to the advanced student in creative writing, expository writing, journalism or theories of the teaching of composition. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Writing. Enrollment limited.

K 1503 0492 Seminar in Comparative Literature

Exploring a culture, era, literary approach, theme, group of authors, single work or parts of a work through literary masterpieces; intellectual, historical, biographical, artistic and other backgrounds. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in Comparative Literature. Enrollment limited.

K 1501 0493 Seminar in American Literature

The works of one American author; all critical approaches explored. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in American Literature. Enrollment limited.

K 1501 0494 Seminar in English Literature

The work of one major British author, chosen by the department, professor and participating students. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in English Literature. Enrollment limited.



DEPARTMENT OF FRENCH

Professor: Klibbe, Chairman; Szklarczyk, Cagnon
Associate Professors: Roederer, Sergent, Standing
Assistant Professors: Glick, Richards, Soffer

The Department of French prepares Liberal Arts and Teacher Education students in sound scholarship, culture and an understanding of the French people. Courses are planned to provide linguistic skill, literary appreciation and understanding of human relationships.

A translation-interpretation concentration is available to French majors who wish to further develop their linguistic skills and who intend to enter careers related to international organizations.

Majors who intend to continue their studies beyond the Bachelor of Arts are advised to acquire proficiency in at least one other foreign language.

An attractive option in French language study is a year of study in a foreign country. Students desiring academic credit for study abroad must obtain permission from the chairman. The country and institution in which the student wishes to study, the amount of credit to be received, and reports to be made are arranged with the Study Abroad Advisor of the Department.

Students may also elect an 18-hour Minor in French, or a 24-hour second teaching field in French.

RECOMMENDED FOR ALL FRENCH MAJORS	semester hours
N 1508 0210 Introduction to General Linguistics.....	3

Incoming French Majors should register for the following courses in Freshman year:	
L 1102 0150, 0155 French Stylistics & Composition I, II.....	3 ea.
L 1102 0155 French Phonetics	2

These courses are prerequisites to all French Major courses.

French Major

I. Requirements (Liberal Arts)	33 s.h.
L 1102 0150, 0151 French Stylistics & Composition I, II.....	3 ea.
L 1102 0155 French Phonetics	2
L 1102 0250 Advanced Composition	2
L 1102 0220 Explication de Texte	3
L 1102 0201 17th Century French Literature (Prerequisite L 1102 0220).....	3
L 1102 0210 18th Century French Literature (Prerequisite L 1102 0220)	3
L 1102 0301 19th Century French Literature (Prerequisite L 1102 0220)	3
L 1102 0310 20th Century French Literature (Prerequisite L 1102 0220)	3
French electives.....	8
REQUIRED TOTAL	33

I. Requirements (Teacher-Education Program)	33 s.h.
L 1102 0150, 0151 French Stylistics Composition I, II.....	3 ea.
L 1102 0155 French Phonetics	2
L 1102 0250 Advanced Composition	2
L 1102 0220 Explication de Texte	3
L 1102 0310 20th Century French Literature (Prerequisite L 1102 0220)	3
L 1102 0410 Advanced French Grammar	3

Select two from the following:

L 1102 0201 17th Century French Literature (Prerequisite L 1102 0220)	
L 1102 0210 18th Century French Literature (Prerequisite L 1102 0220)	6
L 1102 0301 19th Century French Literature (Prerequisite L 1102 0220)	
French electives	8

REQUIRED TOTAL **33**

French majors are strongly encouraged to take courses over and above the minimum requirement of 33 semester hours.

SECOND TEACHING FIELD IN FRENCH

A minimum of 24 semester hours required from the following:

L 1102 0150, 0151	French Stylistics & Composition I, II.....	3 ea.
L 1102 0155	French Phonetics	2
L 1102 0220	Explication de Texte.....	3
L 1102 0250	Advanced Composition	2
L 1102 0165	Spoken Language Practice	3
L 1102 0410	Advanced French Grammar.....	3
	French elective courses	6
	(at least one literature course)	

REQUIRED TOTAL 25

TEACHER EDUCATION

Students desiring teacher certification must:

- 1) have a "B" average in French,
- 2) apply to the Teacher Education program in their Sophomore year.

Those accepted are required to take: L 1102 0419, Teaching of French in Secondary Schools - 3 s.h.

They must also select the professional sequence outlined by the Education Department.

Concentration in Translation

I. Requirements

L 1102 0150, 0151	French Stylistics & Composition I, II.....	3 ea.
L 1105 0155	French Phonetics	2
L 1102 0160	French Civilization: 19th & 20th Centuries	3
L 1102 0220	Explication de Texte.....	3
L 1102 0250	Advanced Composition	2
L 1102 0350	Translation I.....	3
L 1102 0351	Translation II	3
L 1102 0365	Introduction to Consecutive & Simultaneous Interpreting	3
	or	
L 1102 0452	Translation III	3
L 1102 0410	Advanced French Grammar.....	3
	French Electives	5

REQUIRED TOTAL 33

Recommended Electives

L 1102 0135	Commercial French I	3
L 1102 0136	Commercial French II.....	3
L 1102 0260	Origins of French Civilization	3
L 1102 0310	20th Century French Literature (Prerequisite 1102 0220)	3
L 1102 0265	Advanced Spoken Language Practice	3

Minor in French

A minimum of 18 semester hours required from the following:

L 1102 0150, 0151	French Stylistics & Composition I, II.....	3 ea.
L 1102 0155	French Phonetics	
	French Literature courses.....	
	French electives.....	

REQUIRED TOTAL 1

ELECTIVES (For all French programs)

L 1102 0135	Commercial French I	3
L 1102 0136	Commercial French II.	3
L 1102 0160	French Civilization: 19th & 20th Centuries	3
L 1102 0165	Spoken Language Practice	3
L 1102 0202	17th Century Theater	2
L 1102 0211	18th Century Theater	2
L 1102 0230	French Film	3
L 1102 0251	Advanced Syntax	2
L 1102 0260	Origins of French Civilization	3
L 1102 0261	Music in French Civilization	3
L 1102 0265	Advanced Spoken Language Practice	3
L 1102 0311	Contemporary French Drama	2
L 1102 0315	Dada and Surrealism.	2
L 1102 0330	Survey of Medieval Literature	3
L 1102 0335	The French Renaissance	3
L 1102 0340	Survey of French Poetry.	2
L 1102 0345	Development of French Novel.	3
L 1102 0349	Francophone Literature.	3
L 1102 0350	Translation I.	3
L 1102 0351	Translation II	3
L 1102 0360	French Perspectives.	2
L 1102 0365	Introduction to Consecutive & Simultaneous Interpreting	3
L 1102 0375	French Study Abroad.	Credit by Evaluation
L 1102 0410	Advanced French Grammar.	3
L 1102 0452	Translation III	3
L 1102 0467, 0468, 0469, 0470	Seminars.	3 to 12
L 1102 0472	French Language Workshop	2
L 1102 0478	Independent Study.	Credit by Evaluation
REQUIRED TOTAL		33

Students who wish to begin French in College should register for L 1102 0101 Beginning French 1.

Students who wish to continue their study of French in College and have had: Two years of High School French — register for: 1102 0111 Beginning French II or L 1102 0121 Intermediate French 1; Three years of High School French — register for 1102 0132 Intermediate French II.

French Course Descriptions

1102 0100 French Reading Course

earning to read French as a tool for research (a "service" course of MA candidates in English; successful completion of this course will satisfy the language requirement).

1102 0101 and 0111 Beginning French I and II

or students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Laboratory work available. 3 s.h. ea.

1102 0120 Intensive Elementary French

An intensive course covering the Beginning French program. Laboratory work available. 3 s.h.

1102 0121 and 0132 Intermediate French I and II

developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. 3 s.h. ea.

Prerequisite: L 1102 0111 for 0121 & L 1102 0121 for 0132 or equivalent.

L 1102 0135, 0136 Commercial French I, II

A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy—commercial professions and enterprises. 3 s.h.
Prerequisite: L 1102 0132.

L 1102 0141 Advanced French

Improvement of language skills through a selection of texts.

3 s.h.

L 1102 0150 and 0151 French Stylistics and Composition I and II

Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program. 3 s.h. ea.

Prerequisite: L 1102 0132 or equivalent.

L 1102 0155 French Phonetics

Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation; intensive Language Laboratory work. 2 s.h.

L 1102 0160 French Civilization 19th & 20th Centuries

Various aspects of the material, intellectual, artistic, and spiritual life of France.

Prerequisite: French majors or by permission.

3 s.h.

L 1102 0165 Spoken Language Practice

Intensive conversation with organized discussions on subjects of special interest.

2 s.h.

L 1102 0201 17th Century French Literature

The most representative authors of the century.

3 s.h.

L 1102 0202 17th Century Theater

Plays of Corneille, Racine and Moliere.

2 s.h.

L 1102 0210 18th Century French Literature

Main writings of the Age of Enlightenment.

3 s.h.

L 1102 0211 18th Century Theater

Comedy, tragedy and the origin of the drama.

2 s.h.

L 1102 0220 Explication de Texte

Improvement of reading skills and literary perception through the technique of the explication de texte, using examples from a wide variety of periods and genres. 3 s.h.

L 1102 0230 French Film

Development of film art with special emphasis on the contemporary period.

3 s.h.

L 1102 0250 Advanced Composition

A review of advanced grammar through intensive written and oral practice.

2 s.h.

L 1102 0251 Advanced Syntax

Advanced French syntactical theory.

2 s.

L 1102 0260 Origins of French Civilization

French history and cultural development from the Middle Ages to the Revolution.

3 s.

L 1102 0261 Music in French Civilization

Composers from the Middle Ages (Perotin) to modern times (Boulez); their social and cultural backgrounds. 3 s.

L 1102 0265 Advanced Spoken Language Practice	Intensive conversation on an advanced level on selected and varied topics.	3 s.h.
L 1102 0301 19th Century French Literature	Principal literary currents from Romanticism to Symbolism.	3 s.h.
L 1102 0310 20th Century French Literature	Representative Works of contemporary theater and the novel.	3 s.h.
L 1102 0311 Contemporary French Drama	Theatre from the beginning of the century to the present.	2 s.h.
L 1102 0315 Dada and Surrealism	The Dada and Surrealist movements; their influence on twentieth century life.	2 s.h.
L 1102 0330 Survey of Medieval Literature	Development of the principal genres: Chanson de geste, courtly romance, drama and poetry.	3 s.h.
L 1102 0335 The French Renaissance	Selected works of Rabelais, Montaigne and the poets of the Pleiade.	3 s.h.
L 1102 0340 Survey of French Poetry	Development of principal poetic movements with emphasis on the 19th and 20th centuries.	2 s.h.
L 1102 0345 Development of French Novel	Evolution of fiction from the feminist writings of Mme de la Fayette and Diderot to literature of social involvement to the present.	3 s.h.
L 1102 0349 Francophane Literature	Literature of French expression outside Continental France.	3 s.h.
L 1102 0350 and 0351 Translation I and II	Techniques of translation, English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.	3 s.h. ea.
L 1102 0360 French Perspectives	A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.	2 s.h.
L 1102 0365 Introduction to Consecutive and Simultaneous Interpreting	The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.	3 s.h.
L 1102 0375 French Study Abroad	Junior year abroad in a French University.	Credit by Evaluation
L 1102 0410 Advanced French Grammar	A review of the most important structural features of French, with special emphasis on areas of interference with English structure.	3 s.h.
L 1102 0419 Teaching of French in Secondary Schools	Lesson planning; evaluation of techniques; demonstration of teaching procedures; teaching aids; exploration of direct method and audio-lingual approaches.	3 s.h.
L 1102 0452 Translation III	Translation of articles in specific fields of interest to improve translation skills.	3 s.h.
	Prerequisite: L 1102 0350 and 0351.	

L 1102 0467, 0468, 0469, 0470 Seminars

Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

3 to 12 s.h.

L 1102 0472 French Language Workshop

A thorough foundation in French at the level required for successful graduate studies.

2 s.h.

L 1102 0478 Independent Study

Directed independent study and research in French language and literature. 3 s.h.

HUMANITIES ELECTIVE (in English)

semester hours

J 4903 0155	Introduction to French Literature: Middle Ages to 18th Century	3
J 4903 0156	Introduction to French Literature: 19th and 20th Centuries	3
J 4903 0250	French Perspectives	3
J 4903 0260	Major Currents of Modern Thought in French Literature	3
J 4903 0265	Modern French Theater	3
J 4903 0286	French Film	3
J 4903 0287	Modern French Fiction	3
J 4903 0288	Music in French Civilization	3
J 4903 0275	The Writer's Craft in French Literature	3
J 4903 0245	The Napoleonic Wars in Fact and Fiction	3
J 4903 0386	Development of French Novel to 1900	3
J 4903 0390	Contemporary French Anti-Literature 1950-1970	3
J 4903 0186	Myths & Images of Women in French Literature	3
L 1102 0375	French Study Abroad	3

COMPARATIVE LITERATURE ELECTIVES (in English)

K 1503 0365	The Age of Enlightenment	3
K 1503 0366	The Romantic Hero	3

Humanities Elective Course Descriptions

J 4903 0155 Introduction to French Literature: Middle Ages to 18th Century (in English)

Study of major works and literary social movements of that period. 3 s.h.

J 4903 0156 Introduction to French Literature: 19th and 20th Centuries (in English)

Study of major works and trends of that period. 3 s.h.

J 4903 0186 Myths & Images of Women in French Literature (in English)

Literary treatments of female characters in representative works from the Middle Ages to the present. 3 s.h.

J 4903 0250 French Perspectives (in English)

Interplay of contemporary political, economic, social and artistic events in France and the U.S. 3 s.h.

J 4903 0260 Major Currents of Modern Thought in French Literature (in English)

Study of the dominant social, theological and aesthetic movements in French literature through selected works of prose and drama from the beginning of the century to the present. 3 s.h.

J 4903 0265 Modern French Theater (in English)

Study of the most significant plays of Claudel, Montherlant, Girovoux, Sartre and Beckett. 3 s.h.

J 4903 0286 French Film (in English)

Development of film art with special emphasis on the contemporary period. 3 s.h.

J 4903 0287 Modern French Fiction (in English)

Major novelistic modes from the writer-artist conceptions of Gide, through the "committed" literature of Sartre and Camus, to Robbe-Grillet's "New Novel" of the 50's. 3 s.h.

J 4903 0288 Music in French Civilization (in English)

Composers from the Middle Ages (Perotin) to modern times (Boulez) in relation to their social and cultural backgrounds. 3 s.h.

J 4903 0275 The Writer's Craft in French Literature (in English)

Imagery in selected works of French prose and drama, as building blocks in the writer's craft, as stylistic means for the expression of an author's dominant ideas and attitudes. 3 s.h.

J 4903 0245 The Napoleonic Wars in Fact and Fiction (in English)

The historical novel as a genre; the relation of fiction to fact. 3 s.h.

J 4903 0386 Development of French Novel (in English)

Evolution of fiction from the feminist writings of Mme de la Fayette and Diderot's literature of social involvement to the present. 3 s.h.

J 4903 0390 Contemporary French Literature (in English)

Contemporary trends in writing as revealed in selected works from various genres. 3 s.h.

L 1102 0375 French Study Abroad

A three-week cultural seminar in Paris, held during the January intersession and organized by the French Department. No knowledge of French is necessary. 3 s.h.

K 1503 0365 The Age of Enlightenment (in English)

The European Enlightenment, principally as the rational critical attack on tradition, and the beginnings of the movement of pre-romanticism and sensitivity. 3 s.h.

K 1503 0366 The Romantic Hero (in English)

The study of the hero in English, German and French romantic literature. 3 s.h.



DEPARTMENT OF GERMAN AND RUSSIAN

Professors: Heilbronner

Associate Professors: Moore, Chairman; Schlant

Assistant Professors: Lindblom, Soffer

The Department of German and Russian prepares students in the Liberal Arts and in Teacher Education by offering courses geared to give command of the two languages and an understanding of the respective literatures and cultures. Prospective teachers are required to take courses in phonetics, general linguistics and teaching methodology. German may be selected as a Liberal Arts major, a Teacher Education major, a second teaching field or a liberal arts minor. Russian courses are designed to meet special interests of students and to complement other major fields. Russian may be selected as a second teaching field or a liberal arts minor. Majors in German are encouraged to arrange for academic study in a German-speaking country, whether it is for a summer, a semester or an entire academic year. For such work undertaken with the approval of the Department they receive academic credit.

German Major

I. Required courses:		semester hours
M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
M 1103 0251, 0252	Introduction to Literature I, II	3 ea.
M 1103 0351, 0352	German Civilization I, II	3 ea.
 II. Elective courses: Select at least four of the following:		
M 1103 0142	Practice in Written German.	3
M 1103 0209	Phonetics and Phonology.	3
M 1103 0309	Practice in Spoken German	3
M 1103 0310	Advanced Composition.	3
M 1103 0315, 0316	Translation I, II	3 ea.
M 1103 0320	Development of the German Language.	3
M 1103 0341	German Literature from the Origins to the Reformation	3
M 1103 0342	German Literature from the 16th to the 18th Centuries.	3
M 1103 0360	Modern German Prose Fiction	3
M 1103 0362	Development of German Poetry	3
M 1103 0364	German Drama of the 19th and 20th Centuries.	3
M 1103 0375	Study Abroad.	Credit by Evaluation
M 1103 0380, 0381	Independent Study in German (Junior Level)	3 ea.
M 1103 0410	German Grammar; Applied Linguistics.	3
M 1103 0441	The Age of Goethe.	3
M 1103 0442	The Age of Schiller.	3
M 1103 0460	Senior Seminar.	3
M 1103 0480, 0481	Independent Study in German (Senior Level)	3 ea.
	REQUIRED TOTAL	33

Students who desire teacher certification must select the professional sequence by the Education Department, including the following courses:

	semester hour
N 1505 0210	Introduction to General Linguistics.
M 1103 0410	German Grammar; Applied Linguistics.
M 1103 0419	Teaching German in Secondary Schools

They are urged to elect:

M 1103 0142	Practice in Written German.
M 1103 0209	Phonetics and Phonology.

It is emphasized that the total of 33 semester hours required for the major is regarded as a minimum. Majors are encouraged to take as many German courses as they wish beyond this minimum.

Minor in German

M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
Three additional courses in German (M 1103 prefix only) beyond the intermediate level		9
	TOTAL REQUIRED	18

SECOND TEACHING FIELD IN GERMAN

M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
M 1103 0251, 0252	Introduction to German Literature I, II	3 ea.
Three additional courses in German (M 1103 prefix only) beyond the intermediate level		9
	TOTAL REQUIRED	24

Minor in Russian

M 1106 0101 and 0112	Beginning Russian	6
M 1106 0121 and 0132	Intermediate Russian	6
M 1106 0141 and 0152	Advanced Russian	6
	TOTAL REQUIRED	18

Under certain circumstances and with permission of the Department Chairman, other selected courses may be counted toward the Academic Minor in Russian.

SECOND TEACHING FIELD IN RUSSIAN

M 1106 0101 and 0112	Beginning Russian	6
M 1106 0121 and 0132	Intermediate Russian	6
M 1106 0141 and 0152	Advanced Russian	6
J 4903 0293	Russian Culture and Civilization	3
J 4903 0294	Russian Prose and Drama	3
	TOTAL REQUIRED	24

Under certain circumstances and with permission of the Department Chairman, other selected courses may be counted toward the Second Teaching Field in Russian.

German

Course Descriptions

M 1103 0101 and 0112 Beginning German I and II (Speaking)

For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory Work optional. 3 s.h. ea. Prerequisite: M 1103 0101 or equivalent for M 1103 0112.

M 1103 0103 and 0114 Beginning German I and II (Reading)

For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers in which reading knowledge of German is needed. 3 s.h. ea. Prerequisite: M 1103 0103 or equivalent for M 1103 0114.

M 1103 0121 and 0132 Intermediate German I and II (Speaking)

Continuation of German 0101 and 0112; open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to

understand, speak, read and write German, with emphasis on speaking. Laboratory work optional. 3 s.h. ea.

Prerequisite: M 1103 0112 or equivalent for M 1103 0121; M 1103 0121 or equivalent for M 1103 0132.

M 1103 0123 and 0134 Intermediate German I and II (Reading)

Continuation of German 0103 and 0114; open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields; outside reading required. 3 s.h. ea.

Prerequisite: M 1103 0114 or equivalent for M 1103 0123; M 1103 0123 or equivalent for M 1103 0134.

M 1103 0141 Review of Fundamental Grammar

Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference. 3 s.h.

Prerequisite: M 1103 0132 or M 1103 0134 with permission of the Instructor or 3-4 (preferably 4) years of high school German.

M 1103 0142 Practice in Written German

Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification. 3 s.h.

Prerequisite: M 1103 0141.

M 1103 0151 and 0152 Advanced German I and II

Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required of freshman majors, who are given admission preference. 3 s.h. ea.

Prerequisite: M 1103 0132 or M 1103 0134 with permission of the instructor or 3-4 (preferably 4) years of high school German for M 1103 0151; M 1103 0151 for M 1103 0152.

M 1103 0209 Phonetics and Phonology

Application of phonetic science to the acquiring and teaching of good pronunciation; the International Phonetic Alphabet; problems of articulation, rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

3 s.h.

M 1103 0251 and 0252 Introduction to Literature I and II

Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given admission preference. 3 s.h. ea.

Prerequisite: M 1103 0251 for M 1103 0252.

M 1103 0309 Practice in Spoken German

Intensive conversation practice to improve fluency and increase active vocabulary.

3 s.h.

M 1103 0310 Advanced Composition

Intensive written exercises to improve command of the German language; some oral work. 3 s.h.

M 1103 0315 Translation I

Intensive practice in the skills of translating professional texts from German into English and from English into German. 3 s.h.

Prerequisite: Permission of Instructor and Department Chairman.

M 1103 0316 Translation II

Continuation of 0315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc. 3 s.h.
Prerequisite: M 1103 0315 and permission of Instructor.

M 1103 0320 Development of the German Language

Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar. 3 s.h.

M 1103 0341 German Literature from the Origins to the Reformation

Works representative of the Old High German, Middle High German and late medieval periods read in modern German version; the most important genres and trends, ending with excerpts from Luther's works. 3 s.h.

M 1103 0342 German Literature from the 16th to the 18th Centuries

Representative works illustrating the trends preceding the classical period. 3 s.h.

M 1103 0351 and 0352 German Civilization

Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany: reunification, the respective political and educational systems and cultural trends. Required of junior majors who are given admission preference. 3 s.h. ea.
Prerequisite: M 1103 0351 for M 1103 0352.

M 1103 0360 Modern German Prose Fiction

Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent. 3 s.h.

M 1103 0362 Development of German Poetry

The poetical movements, authors and genres since 1600; the evolution of forms, such as the sonnet and the ode; analysis and interpretation of poetry. 3 s.h.

M 1103 0364 German Drama of the 19th and 20th Centuries

Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas. 3 s.h.

M 1103 0375 Study Abroad

An opportunity to gain first-hand knowledge of the historical, social, economic and cultural life of German-speaking Europe. Credit by evaluation.

M 1103 0380 and 0381 Independent Study in German (Junior Level)

Directed individual study and research in German for junior majors with the desirability and responsibility necessary to pursue a special scholarly interest.

Prerequisite: Permission of Instructor and Department Chairman. 3 s.h. ea.

M 1103 0410 German Grammar: Applied Linguistics

A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification. 3 s.h.

M 1103 0419 Teaching German in Secondary Schools

The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification. 3 s.h.

M 1103 0441 The Age of Goethe

The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote. 3 s.h.

M 1103 0442 The Age of Schiller

The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems. 3 s.h.

M 1103 0460 Senior Seminar

Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.

3 s.h.

M 1103 0480 and 0481 Independent Study in German

For senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. 3 s.h. ea.

Russian Course Descriptions

M 1106 0101and 0112 Beginning Russian I and II

For students without previous instruction in Russian; the fundamentals of grammar and pronunciation. Laboratory work. 3 s.h. ea.

Prerequisite: M 1106 0101 or equivalent for M 1106 0112.

M 1106 0121 and 0132 Intermediate Russian I and II

Continuation of Russian 0101 and 0112; open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation; more advanced conversation. Laboratory work. 3 s.h. ea.

Prerequisite: M 1106 0112 or equivalent for M 1106 0121, M 1106121 or equivalent for M 1106 0132.

M 1106 0141 and 0152 Advanced Russian I and II

Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work. 3 s.h. ea.
Prerequisite: M 1106 0132 or equivalent for M 1106 0141; M 1106 0141 or equivalent for M 1106 0152.

M 1106 0478 Independent Study in Russian

Directed individual study and research in Russian for special students.

1-3 s.h.

Prerequisite: Permission of Instructor and Department Chairman.

Humanities Elective Courses

J 4903 0291 Scandinavian Existentialism: The Literary Tradition (in English)

A study of the dominant tradition in Scandinavian literature that emerged in the wake of Kierkegaard's penetrating critique of German Romanticism, this course will consider the tension between fantasy and reality that informs the works of such writers as H. C. Andersen, J. P. Jacobsen, Ibsen, Strindberg, Hamsun, Lagerlof, Isak Dinesen, M. A. Hansen, Par Lagerkvist, Eyvind Johnson, and Harry Martinson. 3 s.h.

J 4903 0292 German Literature 1890-Present (in English)

The principal movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required. 3 s.h.

**J 4903 0293 Russian Culture and Civilization (in English)**

The history of Russian literature and culture: outstanding aspects of Russian civilization. No knowledge of Russian is required. 3 s.h.

J 4903 0294 Russian Prose and Drama (in English)

Russian prose and drama from the 18th century to the present day. Representative works: Pushkin, Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. 3 s.h.

J 4903 0295 German Expressionism (in English)

Various aspects of German Expressionism, encompassing roughly the period between the two World Wars; the political and social climate of the Weimar Republic; literature, painting, sculpture, and music, and film of that era; defining Expressionism as a specific historical period as well as a perennial stylistic device. Knowledge of German is required. 3 s.h.

J 4903 0392 The Modern German Novel (in English)

Reading and discussion of selected novels by great 20th century authors who wrote in German: Thomas Mann, Franz Kafka, Hermann Hesse, etc.; these works as expressions of the ages they represent. No knowledge of German is required. 3 s.h.

J 4903 0395 The German 'Lied' (in English)

An interdisciplinary course tracing the German Art Song since its emergence in the late 18th century; analysis of this mixed art form; evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German nor musical sophistication is necessary. 3 s.h.

Important Note: German majors may count as a major elective one and only one of the German courses from the above group (i.e., 0292, 0295, 0392, or 0395).

DEPARTMENT OF LINGUISTICS

Professor: R. Miller, Chairman

Associate Professor: Susi

Assistant Professors: Freed, Seegmiller

Participating faculty from other departments: Assistant Professors: Klein (Anthropology), Townsend (Psychology)

The course offerings of the Linguistics Department reflect the variety and extent of one of the most critical preoccupations of the twentieth century. Interested students can pursue the scientific study of language in degrees of concentration and areas of specialization according to their needs and/or desires.

Since language penetrates virtually every facet of our experience, the Department makes available to students majoring or minoring in anthropology, sociology, psychology, philosophy, English, foreign languages, speech, mathematics, education, teaching-English-as-a-second language, etc., courses dealing with the important contributions of linguistics to these disciplines. The inherently interdisciplinary character of linguistics suggests that students in these fields may wish to consider interdisciplinary studies involving some degree of concentration in linguistics.

A major in Linguistics consists of 33 semester hours in this field: 12 of required courses and 21 of free electives in Linguistics. A minor in Linguistics may be earned with 18 semester hours of study, of which Linguistics 0210 is a requirement.

Students wishing to teach English as a second language may enroll in the 30-semester-hour program leading to certification: Second Teaching Field in Teaching English as a Second Language (TESL).

Linguistics Major Program

I. Required Courses	12 semester hours
N 1505 0210 Introduction to General Linguistics	
N 1505 0230 Phonetics and Phonological Theory	
N 1505 0310 Structural Grammar	
N 1505 0320 Transformational Grammar	
II. Electives	2
	REQUIRED TOTAL

PROGRAM LEADING TO CERTIFICATION IN TEACHING ENGLISH AS A SECOND LANGUAGE (TESL) AS A SECOND TEACHING FIELD

This program fulfills the thirty (30) credit comprehensive field endorsement as outlined in the new State of New Jersey certification for Teaching English as Second Language.

A. Linguistics — twelve semester hours	semester hours
Required	
N 1505 0210 Introduction to General Linguistics	
(Prerequisite for all linguistics courses)	
N 1505 0220 Structure of American English	
N 1505 0325 Applied Linguistics	
Elective	
N 1505 0280 Bilingualism	3
N 1505 0330 Sociolinguistics	3
N 1505 0260 Dialectology	3
N 1505 0284 History of the English Language	3
	12

B. Cultural and cross-cultural studies — A minimum of **nine** semester hours, in separate or integrated courses.

Required

N 1505 0245	Language and Culture	3
C 0821 0425	Puerto Rican Children in Mainland Schools	3
	To fulfill Bilingual/Bicultural Field Experiences	
P 1105 0481	Spanish Community Program, Field Work I	3

9

C. ESL Methodology — **six** semester hours

Required

N 1508 0403	TESL Methods and Materials	3
N 1508 0430	TESL Practicum	3

6

D. **Elective — three** semester hours selected from the following:

N 1505 0280	Bilingualism	3
N 1505 0330	Sociolinguistics	3
N 1505 0260	Dialectology	3
N 1505 0284	History of the English Language	3
1 2202 0100	Cultural Anthropology	3
A 0800 0400	Foundations of Reading	3
C 0821 0430	Comparative Education	3

(Educ. in Latin America)

TOTAL SEMESTER HOURS REQUIRED 30

Linguistics Course Descriptions

N 1505 0210 Introduction to General Linguistics

The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning.

3 s.h.

N 1505 0220 Structure of American English

The structure of American English: phonology, morphology, syntax; geographical and social dialects; various speaking and writing styles. Traditional, structural and transformational approaches to grammar.

3 s.h.

N 1505 0230 Phonetics and Phonological Theory

How sounds are produced in various languages, their acoustic properties, classification and description. Workbook problems based on many languages.

3 s.h.

I 1505 0245 Language and Culture

Language in its cultural context. Relationship of linguistic to non-linguistic variables: ethnosemantics, componential analysis, glottochronology, linguistic relativity principle.

3 s.h.

I 1505 0250 Language of Propaganda

An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis of how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, argot, emotive language, etc.

3 s.h.

I 1505 0255 Women and Language

A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience collecting and analyzing linguistic data.

3 s.h.

N 1505 0260 Dialectology

Principles of dialect study; application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspectives. 3 s.h.

N 1505 0270 History of Linguistics

Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'schools': structuralism, glossematics, Prague school, London school, tagmemics, stratificational grammar, transformational grammar. 2 s.h.

N 1505 0280 Bilingualism

Compound and coordinate bilingualism; attitudes, motivation, etc.; functions of languages in multilingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English. 3 s.h.

N 1505 0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians; the Germanic strains and the morphology of Old and Middle English. 3 s.h.

N 1505 0310 Structural Grammar

Principles of structural grammar, including its offshoot, tagmemics. Word formation and overt sentence structure of familiar and exotic languages. Segmentation and classification of meaningful elements according to specific formal criteria. Workbook problems based on many languages. 3 s.h.

N 1505 0320 Transformational Grammar

Problems of writing grammars that generate all and only the grammatical sentences of a language. Knowledge and performance in language; underlying and surface structures; the theory and goals of linguistic description. Workbook problems from various languages, but emphasis on English. 3 s.h.

N 1505 0325 Applied Linguistics

Comparison of first and second language acquisition, bilingualism, dialectology, contrastive analysis and nonverbal communication. 3 s.h.

N 1505 0330 Sociolinguistics

Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Emphasis on Black English. The role of second languages within a society: pidgins, creoles, lingua francas, diglossia, etc. 2 s.h.

N 1505 0340 Linguistics and Literary Analysis

Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that account for our intuitions about the poetic or prose style, author, literary work or genre. Contributions of transformational grammar to the problems of style; transformational grammar and metrics. 2 s.h.

N 1505 0370 Comparative and Historical Linguistics

Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change. 3 s.h.

N 1505 0401 Methods of Teaching Foreign Language in Elementary School

Procedures for teaching children in elementary school to understand a spoken foreign language, and to speak it with a correct pronunciation; exposing children to foreign culture by means of songs, stories, realia, etc. 2 s.h.

N 1505 0410 Linguistics and Philosophy

The joint contribution of generative grammar and analytic philosophy toward solving problems shared by linguistics and philosophy. Theory of performatives; the problems of meaning, reference, synonymy, necessity, analyticity; the innateness hypothesis.

3 s.h.

N 1505 0419 The Teaching of Foreign Languages in Secondary Schools

New approaches to foreign language teaching. Techniques and procedures for teaching all four language skills. Enrichment through audio-visual and electronic aids. Collateral reading, lesson planning, and organizing of teaching materials required.

3 s.h.

N 1505 0420 Mathematical Linguistics

Formal models of generative grammars and abstract automata. The application of set theory, symbolic logic, theory of relations, Boolean algebra, etc., to the study of language.

3 s.h.

N 1505 0430 Field Methods

Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

3 s.h.

N 1505 0440 Structures and Origins of the Romance Languages

The linguistic features of the modern Romance languages; their emergence from a common ancestor, continuous differentiation, and similarities and differences 2000 years later.

3 s.h.

N 1505 0441 Comparative Study of the Evolution of the Romance Languages

Processes of linguistic change in the Romance field as established by the comparative method; Proto-Romance and other intermediate stages in the evolution of the Romance languages; sample downtracing to the modern forms.

3 s.h.

N 1505 0450 and 0451 Selected Topics in Linguistics

Study of special problems and topics in linguistics. Topics announced each semester.

3 s.h. ea.

Prerequisite: N 1505 0210 or equivalent and permission of Instructor.

N 1505 0478 and 0479 Independent Study

This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.

3 s.h. ea.

Prerequisite: Introduction to General Linguistics and permission of Instructor.

N 1505 0480 Linguistics in Education and Society

The course is intended to acquaint students involved in language education of any sort with the applications and implications of linguistics for education and for understanding the functioning of language in society.

3 s.h.

I 1508 0111 English For Speakers of Other Languages (ESOL I)

For students who are not native speakers of English. Language majors who have a weakness in English will be required to take ESOL I and ESOL II. ESOL I develops all four language skills, especially listening and speaking; intensive practice in pronunciation and vocabulary-building.

3 s.h.

I 1508 0112 English For Speakers of Other Languages II (ESOL II)

Continued development of listening, speaking, reading and writing, with special emphasis on writing. Each student prepares a research paper.

3 s.h.

N 1508 0403 Methods and Material of TESL

The basic audio-lingual approach, with applications and implications and implications for specific ESL situations (in particular the large New Jersey urban population of Spanish-speaking people). 3 s.h.

N 1508 0430 Field Experience in Teaching English as a Second Language

Opportunity to teach English as a second language will be arranged for each student in the program. 1-3 s.h.

N 1508 0151 Intensive ESOL I

The course aims to develop all four language skills: listening, speaking, reading, writing. This course will emphasize listening comprehension and speaking. Language laboratory is required. This class will meet twice a week for two and a half hours each session, and two hours language laboratory practice each session. The same instructor will conduct both sessions. 6 s.h.

Prerequisite: Comprehensive English Language Test (CELT) for diagnostic and placement purposes.

N 1508 0152 Intensive ESOL II

The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. This class will meet once a week for two and one half hours and two hours laboratory practice. 3 s.h.

Prerequisite: N 1508 0151.

N 1508 0153 Intensive ESOL III

The general aim of this course is to bring non-native speakers of English to a level of competency at which they can successfully compete in the regular college classroom with native speakers of English in the basic skills of reading and writing Standard English. The emphasis will be on written skills. 3 s.h.

Prerequisites: N 1508 0151 and 0152 (or equivalent).

N 1116 0101 and 0102 Elementary Swahili I and II

For students who wish to start Swahili in college; all four linguistic skills—understanding, speaking, reading and writing. 3 s.h. ea

N 1116 0201 and 0202 Intermediate Swahili I and II

These two courses will develop further all four language skills that the student began to acquire at the elementary level. Reading and writing Swahili will be increasingly emphasized as this second year of study proceeds. 3 s.l.

7 2001 0250 Psycholinguistics

The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structures, semantic meaning and speech production and comprehension. 3 s.

Prerequisites: 7 2001 0105 and permission of the Instructor.

1 2202 0463 Anthropological Linguistics

Linguistic systems through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages; the relationship of linguistic structure and theory to cultural systems; individual student field experience; readings and lectures. 3 s.

Prerequisites: 1 2202 0100 or N 1505 0210.

DEPARTMENT OF PHILOSOPHY AND RELIGION

Professors: Brantl, Chairman; Lipman, Richardson

Associate Professors: Bridges, Fleischner, Streetman

Assistant Professors: Aman, Benfield, Johnson, McCollum, Stanton

Instructor: Kogan

Critical reflection on one's ultimate commitments and beliefs—one's values and meanings, modes of existing and knowing—is integral to the humanistic pursuit of all areas of the curriculum. The department's offerings are designed to foster such reflection and to function as interdisciplinary complement to such concentrations as literature, history, the social and physical sciences and fine arts. Courses in Philosophy and Religion may be taken as electives by majors in all departments and schools. Courses under the 300-level may be elected without prerequisite unless otherwise stipulated. All other courses normally demand as prerequisite at least one previous course in the area.

Options for concentration within the department meet various needs, with majors in either Philosophy or Religion-and-Philosophy as preparation for graduate or professional work. The specifically required courses and the minimum number and distribution of departmental electives for these majors are indicated below. Academic Minors (18 semester hours) are offered in either Philosophy or Religion. The student may, of course, elect additional courses in the department beyond the number required.

Philosophy Major

	semester hours
I. Fields of Philosophy (200 level)	15
II. History and Movements	
O 1509 0326 Ancient Philosophy	3
O 1509 0328 Descartes to Kant	3
Electives (History & Movements: 300 level)	9
III. Seminar in Philosophy (Choose 1)	
O 1509 0424, 0425, 0426, or 0427	3
	REQUIRED TOTAL
	33

Religion and Philosophy Major

	semester hours
I. Required Courses	
A. Religious Traditions and Literatures	
O 1510 0100 Religions of the World	3
Area Elective (See list below)	3
B. Religious Thought and Philosophy	
O 1510 0235, 0236 Philosophical Backgrounds, I, II	3 ea.
C. Religion, Cultures and Society	
Area Elective (See list below)	6
D. Seminar in Religious Studies	
(O 1510 0429, 0459, 0489 or 0490)	3
II. Free Electives in Religious Studies	12
	REQUIRED TOTAL
	33

AREA ELECTIVES IN RELIGIOUS STUDIES

For the convenience of majors, the following table lists the numbers of the courses that apply to each Area. For titles and descriptions see "Religion Courses."

- A. Religious Traditions and Literatures
O 1510 0100, 0115, 0200, 0205, 0210, 0215, 0216, 0220, 0225, 0315, 0320, 0329, 0429
- B. Religious Thought and Philosophy
O 1510 0130, 0230, 0235, 0236, 0240, 0244, 0245, 0250, 0251, 0253, 0255, 0340, 0345, 0350, 0359, 0459
- C. Religion, Cultures and Society
O 1510 0260, 0265, 0270, 0275, 0280, 0281, 0285, 0375, 0380, 0389, 0489

Minor in Philosophy

	semester hours
Introduction to Philosophy (O 1509 0100, optional)	0-3
Fields of Philosophy (200-level)*	6-12
History and Movements in Philosophy (300-level)*	6-12
REQUIRED TOTAL	18

*The Department recommends that the student consult with an advisor in the Department in choosing electives for the minor in order that the selection may be most consistent with the student's overall educational plans and needs.

Minor in Religion

Introduction to Religion (O 1510 0130)	3
Seminar (O 1510 0429, 0459, 0489, or 0490)	3
Electives in Religion (O 1510)	12
REQUIRED TOTAL	18

Philosophy **Course Descriptions**

O 1509 0100 Introduction to Philosophy

The nature, scope, methods, basic problems and major types of philosophy. 3 s.h.

O 1509 0105 History of Philosophy: An Introduction

Major issues, movements and thinkers in the development of philosophy in the West. 3 s.h.

O 1509 0202 Logic

The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic. 3 s.h.

O 1509 0203 Ethics

The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories. 3 s.h.

O 1509 0204 Social and Political Philosophy

The nature of society and the state, their relation to each other and to the individual and an evaluation of some main political and social ideals. 3 s.h.

O 1509 0206 Contemporary Aesthetics

Recent investigations into the function of art in human experience: the nature of aesthetic meaning, value, creation and enjoyment. 3 s.h.

O 1509 0207 Philosophies of Art

The major philosophies of art in the history of Western thought. The conceptual network of ideas of the thinker in question will be delineated, and connection shown between the thinker and the philosophical and artistic themes of that period.

3 s.h.

O 1509 0210 Theories of Knowledge and Experience

The major issues and theories concerning the relationship between knowledge, experience and reality. 3 s.h.

Prerequisite: One course in Philosophy.

O 1509 0215 Philosophical Theories of History

Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation, the objectivity of historical knowledge, historical causation and determinism. 3 s.h.

Prerequisite: One course in Philosophy.

O 1509 0220 Metaphysics

An examination through selected readings of major philosophical theories concerning the nature of reality. 3 s.h.

Prerequisite: One course in Philosophy.

O 1509 0230 The Philosophy of Language

The major philosophical theories concerning the nature of language in its relation to thought, reality, and communication. 3 s.h.

Prerequisite: One course in Philosophy.

O 1509 0235 Philosophy of Religion

The nature and shape of religious experience; criteria for meaning within religious thought and language; metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death. 3 s.h.

O 1509 0240 Philosophy of Science

The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues. 3 s.h.

O 1509 0245 Philosophy of Law

An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law. 3 s.h.

O 1509 0261 Morals and Medicine

A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization. 3 s.h.

O 1509 0262 Philosophical Issues: Law and Justice

An examination of current philosophical accounts of both distributive and retributive justice. Close attention will be paid to such specific issues as: the right of society to legislate its common morality; the use of behavior modification techniques on criminal offenders; and the restoration of capital punishment. 3 s.h.

O 1509 0290, 0291, 0292, 0293 Fields of Philosophy: Selected Topics

Topics announced each semester. 3 s.h.

O 1509 0326 Ancient Philosophy

The major philosophical systems and movements from the Pre-Socratics to Plotinus with special emphasis on Plato and Aristotle. 3 s.h.

O 1509 0327 Medieval Philosophy

The development of philosophy from Augustine to Ockham. 3 s.h.

O 1509 0328 Descartes to Kant

The major philosophical systems and movements from the Renaissance to Kant. 3 s.h.

O 1509 0329 Nineteenth Century Philosophy

The major philosophical systems and movements of the Nineteenth century. 3 s.h.

O 1509 0330 American Philosophy

The major American philosophers and philosophical movements with emphasis on Peirce, James, Royce, and Dewey. 3 s.h.

O 1509 0335 Contemporary Philosophers

The major movements in contemporary philosophy, studied through writings of leading exponents. 3 s.h.

O 1509 0336 Existentialism

The major themes and concepts of Existentialism in selected writings of the existentialist philosophers. 3 s.h.

O 1509 0337 Analytic Philosophy

The development of the analytic tradition in twentieth century philosophy; the logical and linguistic techniques employed. 3 s.h.

O 1509 0339 Marx and Marxism

The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary Existentialist Marxism are considered briefly. 3 s.h.

O 1509 0340 Oriental Philosophy

Philosophical interpretations of experience and reality in representative movements of Eastern thought. 3 s.h.

O 1509 0390, 0391, 0392, 0393 Periods and Movements: Selected Topics

Topics announced each semester. 3 s.h.

O 1509 0424, 0425, 0426, 0427 Seminar in Philosophy

Cooperative research seminars in major movements, problems, philosophers or works. Topic announced each semester. Permission of instructor required. 3 s.h.

O 1509 0447, 0448, 0449, 0450 Independent Study in Philosophy

Directed independent study and research in philosophy. 3-12 s.h.

Prerequisite: Open to students with a minimum of 3.0 cum. in at least 9 semester hours of philosophy.

O 1509 0490 Teaching Philosophy to Children

This course is designed to equip teachers with the skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials in philosophy for children, the history of philosophical ideas which form an essential component of the approach, the nature of formal and informal reasoning and an analysis of educational issues which are affected by the introduction of philosophy into the classroom. (This course will not count toward the undergraduate major in philosophy.) 9 s.h.

Religion

Course Descriptions

O 1510 0100 Religions of the World

The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness. 3 s.h.

O 1510 0115 Sacred Literature

The interpretation of religious literature, broadly conceived as including story form, epic narratives, "secular" tales and religious poetry, as well as canonical texts. 3 s.h.

O 1510 0130 Introduction to Religion

An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment. 3 s.h.

O 1510 0200 Primitive Religions and Comparative Mythologies

A study of primitive, archaic and folk religions in their ritual practices and religious myths, and of world religions through the mythological motifs which they share with archaic religions. 3 s.h.

O 1510 0205 Oriental Religions

The cultural and theological bases for the faith and practice of major Eastern religions—Buddhism, Confucianism, Hinduism, Taoism. 3 s.h.

O 1510 0210 History of Western Religion

The theological and ecclesiastical developments of the major living religions of the Western World; emphasis on Judaism and Christianity. 3 s.h.

O 1510 0215 Old Testament: Genesis to Joshua

The evolution of the ancient Hebrew world-view as developed through the Bible in response to historical events and ongoing religious experience of the people of Israel. 3 s.h.

O 1510 0216 Old Testament: Joshua to Daniel

The history and theology of Israelite religion as seen in the Biblical books covering the middle and late periods (1150-165 B.C.E.) 3 s.h.

O 1510 0220 New Testament: Jesus and the Gospels

The evolution of the Christian Scriptures from the gospels through the history of the early church, with emphasis on themes of major shapers of Christian faith. 3 s.h.

O 1510 0221 New Testament: Paul and the Early Church

The writings of Paul, John and other figures in the apostolic period of the early church. 3 s.h.

O 1510 0225 Islamic Religious Traditions

The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world. 3 s.h.

O 1510 0230 Oriental Philosophy

(See description for Philosophy course O 1509 0340.)

O 1510 0235 Philosophical Backgrounds of Western Religion I

The inter-relationships of Western religion with philosophy from the Presocratics through the Middle Ages; the emergence of classical fields of philosophy. 3 s.h.

O 1510 0236 Philosophical Backgrounds of Western Religion II

The inter-relationship of Western religion with philosophy in the Renaissance, Enlightenment and modern period; the emergence of the autonomous spirit of criticism. 3 s.h.

O 1510 0240 Contemporary Religious Thought

The current trends and issues in religious thought as developed in the writings of contemporary theologians. 3 s.h.

O 1510 0244 Philosophy of Religion

A philosophical examination of religion. It includes: the nature and shape of religious experience; criteria for meaning within religious thought and language; metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death. 3 s.h.

O 1510 0245 Religious Language and Experience

Contemporary philosophical investigations of the nature and function of religious discourse in the context of religious experience and belief. 3 s.h.

O 1510 0250 Systematic Theology

The major doctrines of creative faith in the Judaeo-Christian tradition. 3 s.h.

O 1510 0251 Classics of Western Theology

Selected works of significant theologians of the Western tradition on issues such as the nature of God, Christology, soteriology, ecclesiology, theodicy, etc. 3 s.h.

O 1510 0253 Ethics

(See description for Philosophy course O 1509 0203.)

O 1510 0255 Social and Political Philosophy

(See description for Philosophy course O 1509 0204.)

O 1510 0260 Religion in America

The growth and development of various religious movements—Protestant, Catholic, Jewish, and Sectarian minorities—from Colonial times to the present. 3 s.h.

O 1510 0265 Religion and Moral Issues

Ethical issues as currently discussed by representative thinkers of the major Western religious traditions. 3 s.h.

O 1510 0270 Religion and Social Change

The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development. 3 s.h.

O 1510 0275 Religion and Culture

The inter-relation of religion and culture in the formulation of human values and views, life-styles and institutions. 3 s.h.

O 1510 0280 Religion and Psychology I

The views of religious man reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian; implications of psychology for critical religious thought. 3 s.h.

O 1510 0281 Religion and Psychology II

Selected psychological investigations and/or theories of religious phenomena; the implications for specific and constructive religious thought. 3 s.h.

O 1510 0285 Women in Religion

The roles which have been held by women in the various religious traditions of the world. 3 s.h.

O 1510 0315 Early Jewish and Christian Thought

The Jewish and Christian foundations of western religious thought from the second to the fifth centuries of the Common Era. 3 s.h.

O 1510 0320 Medieval and Reformation Religious Thought

Major movements and thinkers within Judaism, Islam and the various branches of Christianity, from Augustine to the Counter-Reformation. 3 s.h.

O 1510 0329 Selected Study in World Religions

Topics announced each semester. 3 s.h.

O 1510 0340 Religion and Modern Critical Thought: 1600-1900

The origin and development of the religious spirit, in the light of modern critical thought, from the rise of science to the end of the nineteenth century. 3 s.h.

O 1510 0345 Modern Jewish Religious Thought

Contemporary Judaism studied against the background of 19th and early 20th century Jewish thought. 3 s.h.

O 1510 0350 Historical Thought in Christian Theology: 1900-1945

The impact of modern historical thought on Christian faith; its critical expression in major theologians of the twentieth century. 3 s.h.

O 1510 0359 Selected Study in Religious Thought

Topics announced each semester. 3 s.h.

O 1510 0375 Heresy and Heterodoxy

Movements such as Gnosticism, mysticism and sectarianism studied in their relationship to the dominant orthodoxy, how they have been labeled heresies and have functioned within a "little tradition" of their own. 3 s.h.

O 1510 0380 The Holocaust: Religious Perspectives

A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event. 3 s.h.

O 1510 0389 Selected Study in Religion and Culture

Topics announced each semester. 3 s.h.

O 1510 0390 Selected Study in Religion

Topics announced each semester. 3 s.h.

O 1510 0397, 0398 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion. 3 s.h.

O 1510 0429 Seminar in World Religions

Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester. 3 s.h.

Prerequisite: Permission of instructor required.

O 1510 0459 Seminar in Religious Thought

Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester. 3 s.h.

Prerequisite: Permission of instructor required.

O 1510 0489 Seminar in Religion and Culture

Cooperative research seminars in major movements, problems, theologians. 3 s.h.

Prerequisite: Permission of instructor required.

O 1510 0490 Seminar in Religion

Cooperative research seminar in major movements, problems, theologians. 3 s.h.

Prerequisite: Permission of instructor required.

O 1510 0497, 0498 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion. 3 s.h.

J 4903 0461 Humanities and the Environment

Attitudes which man might hold toward nature. "Man in Nature" explores attitudes characteristic of primitive religions; "Man Against Nature" takes account of the New Science with its attendant desacralization of nature; "Man and Nature" is an exploration of ways man and nature may coexist. 3 s.h.

DEPARTMENT OF SPANISH AND ITALIAN

Professors: Fulton, Chairman: Possiedi

Associate Professors: Bolletino, Prieto, Rambaldo, Susi

Assistant Professors: Barasch, Barbeito, Battista, Englebert, Franken-thaler, Hwang, Levine, Minc, Richards, Wyatt, Zahner

Instructors: Demetriou, McCormick, Miressi

The Department of Spanish and Italian develops sound scholarship by providing the student with linguistic fluency and awareness and understanding of Italian and Hispanic cultures through the study of their languages, literatures and cultural histories.

Majors in Italian or Spanish choose an area of concentration in the Italian language, literature and culture; the Spanish language; Peninsular Spanish literature and culture; or Spanish-American literature and culture as well as courses in translating and interpreting.

Departmental majors are urged to spend a year, a semester or a summer studying in Italy or a Spanish-speaking country. This study should be planned for the junior year; students must obtain the permission of the department chairman. Upon returning to the college they must present a transcript from the institution abroad with a minimum grade equivalent to a C in all courses submitted for credit. The departmental Committee for Study Abroad will make arrangements regarding institution, courses, credit and final evaluation.

Non-majors in the department are also encouraged to participate in the Study Abroad program on a space available basis.

Majors who intend to pursue graduate studies are urged to acquire proficiency in at least one additional Romance language and to take the Graduate Record Examinations in their senior year.

Students may also elect 18-hour minors in Italian or Spanish, 24-hour second teaching fields in Italian or Spanish, and a 24-hour interdisciplinary minor in Spanish Community Affairs. Courses in the Portuguese language are also available.

Required for all Spanish and Italian majors.

N 1505 0210 Introduction to General Linguistics 3 s.h.

Spanish Major

I. Major Requirements: 18 hours		semester hours
P 1105 0141 Spanish Grammar and Composition I.....		3
P 1105 0142 Spanish Grammar and Composition II.....		3
P 1105 0150 Introduction to Hispanic Literature		3
P 1105 0160 Masterpieces of Spanish Literature		3
P 1105 0162 Masterpieces of Spanish-American Literature		3
P 1105 0260 Spanish Cultural History OR		3
P 1105 0270 Spanish-American Cultural History		3
	REQUIRED TOTAL	18

II. Electives: 15 hours from the following

Language

P 1105 0209 Introduction to Spanish Phonetics.....	3
P 1105 0309 Spanish Conversation	3
P 1105 0350, 0351 Translating I, II.....	3 ea.
P 1105 0445 Evolution of the Spanish Language	3
P 1105 0410 Spanish Grammar for Teachers	3
P 1105 0450 Consecutive and Simultaneous Interpreting.....	3

Peninsula Spanish Literature

P 1105 0340 The Middle Ages.....	3
P 1105 0460 El Quijote.....	3

P 1105 0369	The Drama of the Golden Age	3
P 1105 0372	Spanish Prose of the 19th Century	3
P 1105 0371	Spanish Poetry and Drama of the 19th Century.....	3
P 1105 0365	Spanish Novel of the 20th Century	3
P 1105 0465	Spanish Theater of the 20th Century	3
Spanish-American Literature		
P 1105 0265	The Spanish-American Novel	3
P 1105 0367	Spanish-American Essayists.....	3
P 1105 0368	Contemporary Spanish-American Short Story	3
P 1105 0466	Contemporary Spanish-American Theater.....	3
P 1105 0471	Contemporary Trends in the Spanish-American Novel.....	3
P 1105 0472	Puerto Rican Literature and Thought.....	3
Additional Electives		
P 1105 0221	Commercial Spanish	3
P 1105 0360	Spanish Community Program	3
P 1105 0375	Study Abroad	Credit by evaluation
P 1105 0470	Senior Seminar	3
P 1105 0475	Seminar on Spanish Culture in the U.S.	3
P 1105 0480	Independent Study	3
REQUIRED TOTAL		33

TEACHER CERTIFICATION

Students who desire teacher certification must elect the following courses

P 1105 0209	Introduction to Spanish Phonetics.....	3
P 1105 0410	Spanish Grammar for Teachers.....	3
P 1105 0419	The Teaching of Spanish in Secondary Schools	3

SECOND TEACHING FIELD IN SPANISH

P 1105 0141	Spanish Grammar and Composition I.....	3
P 1105 0142	Spanish Grammar and Composition II	3
P 1105 0209	Introduction to Phonetics	3
P 1105 0260	Spanish Cultural History, or	3
P 1105 0270	Spanish-American Cultural History	3
P 1105 0309	Intensive Practice in the Spoken Language.....	3
P 1105 0410	Spanish Grammar for Teachers.....	3
REQUIRED TOTAL		18
Electives in Literature Courses:		6
REQUIRED TOTAL FOR SECOND FIELD		24

Additional requirement

If the student has not studied a teaching methods course in a foreign language, he/she must elect, in addition, 1105 0419, The Teaching of Spanish in Secondary Schools (3 s.h.).

Minor in Spanish

		semester hours
P 1105 0141	Grammar and Composition I	3
P 1105 0150	Introduction to Hispanic Literature	3
P 1105 0160	Masterpieces of Spanish Literature	3
P 1105 0162	Masterpieces of Spanish-American Literature	3
P 1105 0260	Spanish Cultural History,	3
P 1105 0270	Spanish-American Cultural History	3
P 1105	Literature Elective	3
REQUIRED TOTAL		18

Minor in Spanish Community Affairs

		semester hours
Required courses:		
Education:	C 0821 0445	Puerto Rican Children in Mainland Schools, OR.....
	C 0821 0504	Social Forces and Education
Psychology:	7 2001 0280	Introduction to Community Psychology, OR
	7 2001 0225	Environmental Psychology.....
Sociology:	8 2208 0202	Race and Ethnic Relations, OR....
	8 2208 0206	Individual and Society
Spanish:	P 1105 0472	Puerto Rican Literature and Thought

Specialization: One of the four areas listed below dealing with the Spanish Community:

Education:	C 0821 0544	Social Forces and Education, or either of the two core courses not previously taken:	3
Psychology:	7 2001 0380	Psychology and Community Services.....	3
Sociology:	8 2208 0215	Helping Professions and Institutions.....	3
Spanish:	P 1105 0475	Seminar on Spanish Culture in the United States	3

Field Work: A minimum of two semesters, earning a total of 9 semester hours credit. The student may elect two units of field work in one semester or one unit for each of three semesters.

P 1105 0481	Field Work I	3
P 1105 0482	Field Work II	3
P 1105 0483	Field Work III.....	3

REQUIRED TOTAL 24

Students who are not bilingual will be accepted into the program with the understanding that before going into field work or electing Spanish courses they will become proficient in the Spanish language. For this purpose there are intensive training courses in the Spanish department: P 1105 0120, 0140, 0209 and 0309.

Spanish Course Descriptions

P 1105 0101 and 0112 Beginning Spanish

For students with no previous Spanish. Training in understanding, speaking and writing the language. 3 s.h. ea.

Prerequisite: Spanish 0101 or equivalent for Spanish 0112.

P 1105 0108 Practical Spanish for Hospital Personnel

This course provides medical personnel with the ability to communicate with their Spanish-speaking patients and clients. The student learns to ask pertinent questions regarding health problems, to give basic instructions and directions, to be able to carry on limited conversation and to be able to read and write Spanish. Not for major credit. 3 s.h.

P 1105 0110 Practical Spanish for Law Enforcement Officers

Course designed to provide law enforcement officials and persons in related areas with a basic knowledge of the Spanish language as it pertains to the performance of their duties in the Hispanic Community. Completion of the course will give the student a knowledge of Spanish which will enable him to deal with those immediate problems where the use of English is not possible. Not for major credit. 3 s.h.

P 1105 0120 Comprehensive Review of Beginning Spanish

For students who have studied one or two years of high school Spanish and who score below 450 on College Board Achievement Test. Basically the first year course telescoped into one semester.

3 s.h.

P 1105 0121 and 0132 Intermediate Spanish

A continuation of the Beginning Spanish courses to strengthen the four language skills.

3 s.h.

Prerequisites: Spanish 0112 or 0120 or equivalent for 0121; Spanish 0121 or equivalent for 0132.

P 1105 0140 Comprehensive Review of Intermediate Spanish

For students with three or four years of high school Spanish with scores between 500 and 600 on College Board Achievement Test. Basically the two intermediate courses telescoped into one semester.

3 s.h.

P 1105 0141 Spanish Grammar and Composition I

To give the student an active command of the language by means of oral and written exercises, and a thorough review of grammar, vocabulary and idioms. Required for all majors.

3 s.h.

Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0142 Spanish Grammar and Composition II

To improve the student's mastery of the language through written and oral exercises, review of advanced grammar. Required for majors.

3 s.h.

Prerequisite: Spanish 0141 or equivalent.

P 1105 0150 Introduction to Hispanic Literature

The course proposes to identify the characteristics of various literary genres and define the inner workings of a piece of literature. Selections from the epic poem, the ballad, drama, satirical essays, philosophical novels, etc., will be used to enable the student to define the uniqueness of each genre. Certain forms of literature such as the *jarcha*, *romance*, *zarzuela*, peculiar to the Spanish literary tradition will also be analyzed. The role of the author, the uses of images and irony, the narrative point of view, etc., will be stressed as essential to literary criticism.

3 s.h.

Prerequisite: P 1105 0132 or 0140 or equivalent.

P 1105 0160 Masterpieces of Spanish Literature

This course will present the student with an overall view of major works of Spanish Literature from the Middle Ages to the present time. The works will be analyzed from a literary, historical, sociological and psychological point of view. Special emphasis will be placed on the evolution of literary techniques and the importance of such cultural norms as honor, machismo, the cult of the Virgin Mary and the importance of religion.

3 s.h.

Prerequisite: P 1105 0150 Introduction to Hispanic Literature.

P 1105 0162 Masterpieces in Spanish-American Literature

This course deals primarily with an intensive study of representative works from each major period in Latin American literature. It is a panoramic view of what Hispanic America has produced since the *Conquista* to the 20th century.

3 s.h.

Prerequisite: P 1105 0150 Introduction to Hispanic Literature.

P 1105 0209 Introduction to Spanish Phonetics

Spanish phonetics and phonemics: theory and practice; comparative analysis of Spanish and English phonology. The language laboratory is used extensively.

3 s.h.

Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0221 Commercial Spanish

For students interested in the business field: styles of letter writing, vocabulary

peculiar to business, legal terminology. Emphasis on written fluency and expression.
Prerequisite: Spanish 0141 or equivalent. 3 s.h.

P 1105 0260 Spanish Cultural History

The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0265 The Spanish-American Novel

Development of the Spanish-American novel up to 1945. 3 s.h.
Prerequisites: Spanish 0141 and 0252 or equivalent.

P 1105 0270 Spanish-American Cultural History

Development of the politics, art and philosophy of the Spanish-speaking nations of the Western Hemisphere. Required for majors. 3 s.h.
Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0309 Spanish Conversation

Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events; gives a competence in Spanish as an instrument of oral expression. Classes limited to ten students. 3 s.h.
Prerequisite: Spanish 0141 or equivalent.

P 1105 0340 Middle Ages in Spain

Medieval Spanish masterpieces will be selected as basic topics around which the background that made them possible will be studied in an effort to bring to light the intricate relationship between the outstanding men of letters and their times. 3 s.h.
Prerequisite: P 1105 0160.

P 1105 0350 and 0351 Translating I and II

Techniques of translating Spanish-English, English-Spanish. Analysis of variation in connotation, emphasis, style, sentence structure, expression of ideas and images. 3 s.h. e
Prerequisite: Spanish 0141 and 0310.

P 1105 0360 Spanish Community Program

Interdisciplinary approach to field work in underprivileged area of the Spanish speaking communities in New Jersey. Open to anyone in the College with working knowledge of Spanish. 9 semester hours will be given by the Spanish Department and two other departments selected by the student. 3 s.
Prerequisite: Previous consultation with instructor.

P 1105 0365 Spanish Novel of the 20th Century

The modern novel in Spain beginning with the *Generacion del '98*. 3 s.
Prerequisite: Spanish 0151 or equivalent.

P 1105 0367 Spanish-American Essayists

The role of the essay in Spanish-American life and culture. Studies of selected modern essayists. 3 s.
Prerequisite: Spanish 0252 or equivalent.

P 1105 0368 Contemporary Spanish-American Short Story

Trends in the contemporary short story; the short story as an important genre in Spanish-American letters. 3 s.
Prerequisite: Spanish 0252 or equivalent.

P 1105 0369 The Drama of the Golden Age

Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderon de la Barca. 3 s.

Prerequisite: Spanish 0260 or equivalent.

P 1105 0370 Contemporary Spanish-American Poetry

Leading 20th century poets beginning with Dario, with a special emphasis on Modernismo. 3 s.h.

Prerequisites: Spanish 0252 or equivalent.

P 1105 0371 Spanish Poetry and Drama of the 19th Century

A critical study of the main works of this century from the Duque de Rivas and Espronceda to Echegaray and Galdos. 3 s.h.

Prerequisite: Spanish 0151 or equivalent.

P 1105 0372 Spanish Prose of the 19th Century

The main works in Romanticism, Realism and Naturalism in 19th century Spain. 3 s.h.

Prerequisite: Spanish 0151 or equivalent.

P 1105 0375 Study Abroad

Study at a University in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of an Hispanic country.

Prerequisites: Permission of department chairman. Credit by evaluation

P 1105 0410 Spanish Grammar for Teachers

Structural features of Spanish; areas of interference with English structure which present the greatest difficulties to the student of Spanish. 3 s.h.

Prerequisites: Spanish 0310 or equivalent, Seniors only.

P 1105 0419 The Teaching of Spanish in Secondary Schools

Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. 3 s.h.

Prerequisite: Senior standing.

P 1105 0445 The Evolution of the Spanish Language

The development of the Spanish language from its origin to the present day, within the framework of other neo-Latin languages, the phonological and structural changes which occurred through historical development. 3 s.h.

Prerequisite: Spanish 0310 or equivalent.

P 1105 0450 Consecutive and Simultaneous Interpreting

This course is designed to teach the student the specialized techniques of oral interpretation, both consecutive and simultaneous, to help prepare him to pursue the career of a professional translator and interpreter. 3 s.h.

Prerequisites: 1105 0350 and 0351, Translating I and II.

P 1105 0460 El Quijote

The literary and social background, structure, themes and styles of *El Quijote* as a masterpiece. 3 s.h.

Prerequisite: Spanish 0260 or equivalent.

P 1105 0465 Spanish Theater of the 20th Century

Principal trends of the Spanish theater from Benavente to the contemporary dramatists. 3 s.h.

Prerequisite: Spanish 0151.

P 1105 0466 Contemporary Spanish-American Theater

The principal movements of the theater in Spanish America in the 20th century. 3 s.h.

Prerequisite: Spanish 0252.

P 1105 0470 Senior Seminar

Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.

3 s.h.

Prerequisite: Senior majors only. Permission of instructor required.

P 1105 0471 Contemporary Trends in the Spanish-American Novel

The contemporary novel in Spanish America, with emphasis on nueva novela.

3 s.h.

Prerequisites: Spanish 0252 or equivalent.

P 1105 0472 Puerto Rican Literature and Thought

Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas.

3 s.h.

Prerequisite: Spanish 0252.

P 1105 0475 Seminar on Spanish Culture in the U.S.

A study of the Hispanic cultures and their adaptation culturally and linguistically to the U.S., considering especially Puerto Ricans, Chicanos and other minority groups.

3 s.h.

Prerequisites: Spanish 0472 and permission of instructor.

P 1105 0480 Independent Study

Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.

3 s.h.

Prerequisites: 24 hours of major Spanish credits.

P 1105 0481 Field Work in Spanish Community I

Required course in the Academic Minor in Spanish Community Affairs. Student will devote 100 hours work in the area in which he chooses to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc., under the supervision of the MSC Passaic Center. In addition, the student must carry out an independent project by which he will demonstrate his ability to communicate with and engage the Spanish Community.

3 s.h.

Prerequisite: Permission of instructor.

P 1105 0482 Field Work in Spanish Community II

A continuation of P 1105 0481. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit.

3 s.h.

Prerequisite: P 1105 0481 and permission of instructor.

P 1105 0483 Field Work in Spanish Community III

Continuation of P 1105 0482. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit.

3 s.h.

Portuguese Course Descriptions

P 1125 0101 and 0112 Beginning Portuguese

For students with no previous study of Portuguese; training students to understand speak, read and write the language.

3 s.h. ea

Prerequisite: Portuguese 0101 or equivalent for 0112.

P 1125 0160 Masterpiece in Portuguese Literature

An intensive study of representative works by the most important authors of each

major period in Portuguese literature. 3 s.h.
 Prerequisite: P 1125 0132.

P 1125 0162 Masterpieces in Brazilian Literature

An intensive study of representative works by the most important authors of each major period in Brazilian literature. 3 s.h.
 Prerequisite: P 1125 0132.

P 1125 0121 and 0132 Intermediate Portuguese

Strengthening basic language skills, as established in the beginning courses, through more advanced grammar and selected readings. 3 s.h. ea.
 Prerequisites: Portuguese 0112 or equivalent for 0121, and Portuguese 0121 or equivalent for 0132.

Italian Major

I. Requirements		semester hours
P 1104 0141	Italian Grammar and Composition	3
P 1104 0142	Advanced Composition	3
P 1104 0151	Studies in Italian Literature: 18th through 20th Centuries	3
P 1104 0152	Studies in Italian Literature: Origins to 18th Century	3
P 1104 0260	Italian Cultural History	3
	REQUIRED TOTAL	15
II. Electives: 21 semester hours from		
P 1104 0251, 0252	Italian Literature of the Renaissance	6
P 1104 0309	Intensive Practice in the Spoken Language.....	3
P 1104 0351, 0352	Italian Literature of the 20th Century	6
P 1104 0361, 0362	Italian Literature of the 19th Century	6
P 1104 0371	Italian Literature of the 13th and 14th Centuries.....	3
P 1104 0377	Italian Literature of the 18th Century	3
P 1104 0410	Italian Grammar for Teachers	3
P 1104 0461	Dante Seminar I.....	3
P 1104 0462	Dante Seminar.....	3
P 1104 0470	Senior Seminar	3
P 1104 0375	Study Abroad	Credit by evaluation
P 1104 0480	Independent Study.....	3
	REQUIRED TOTAL	33

Minor in Italian

P 1104 0141	Grammar and Composition	3
P 1104 0151	Italian Literature, 18th through 20th Centuries	3
P 1104 0152	Italian Literature, Origins to 18th Century	3
P 1104 0142	Advanced Composition	3
P 1104	Electives in Italian Literature.....	6
	REQUIRED TOTAL	18

TEACHER CERTIFICATION

Students who desire teacher certification must elect the following courses

P 1104 0309	Intensive Practice in the Spoken Language.....	3
P 1104 0410	Italian Grammar for Teachers	3
P 1104 0419	The Teaching of Italian in Secondary Schools.....	3

SECOND TEACHING FIELD IN ITALIAN

P 1104 0141	Italian Grammar and Composition	3
P 1104 0151	Studies in Italian Literature: 18th through 20th Centuries	3
P 1104 0152	Studies in Italian Literature: Origins to 18th Century	3
P 1104 0309	Intensive Practice in the Spoken Language.....	3
P 1104 0142	Advanced Composition	3

P 1104 0410	Italian Grammar for Teachers	3
P 1104	Electives in Italian Literature.	6
REQUIRED TOTAL FOR SECOND FIELD		24

Additional requirements:

If the student has not studied a teaching methods course in a foreign language, he must elect, in addition, P 1104 0419, The Teaching of Italian in Secondary Schools (3 s.h.).

Italian Course Descriptions

P 1104 0101 and 0112 Beginning Italian

For students with no previous knowledge of Italian; imparting the basic foundations in the language. 3 s.h. ea.

Prerequisite: Italian 0101 or equivalent for 0112.

P 1104 0121 and 0132 Intermediate Italian

A continuation of the beginning courses to strengthen the four language skills through grammar and selected readings. 3 s.h. ea.

Prerequisites: Italian 0112 or equivalent for 0121, and Italian 0121 or equivalent for 0132.

P 1104 0141 Italian Grammar and Composition

Gives students better control of the structure of the language through written and oral practice. Required for majors. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0142 Advanced Composition

Mastery of the language through written and oral exercises; review of advanced grammar. Required for majors. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0151 Studies in Italian Literature: 18th Through 20th Centuries

Representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of literary works. Required for majors. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0152 Studies in Italian Literature: Origins to 18th Century

Representative works from the *Scuola Siciliana* to the 18th century analyzed and discussed. Required for majors. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0251 and 0252 Italian Literature of the Renaissance

The development of Humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries.

0251—Emphasis on Petrarch: *Canzoniere*, *Secretum*, *Tionfi*, and Boccaccio's *Decamerone*.

0252 — Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others. 3 s.h. ea.

P 1104 0260 Italian Cultural History

This course is designed to acquaint the students with the complex and rich texture of Italian civilization. Its most important expressions will be studied, particularly the development of Italian arts, music and theater, as well as major institutions, such as social and political structures, religion, etc., which will be considered against the background of Italian history. 3 s.h.

Prerequisite: P 1104 0132 or equivalent.

P 1104 0309 Intensive Practice in the Spoken Language

Practice in spoken Italian through assigned topics and discussions about daily life and world events; an opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0351 and 0352 Italian Literature of the 20th Century

Particular attention to the contemporary period.

0351 — Pirandello: *Novelle per un anno*, *Così e, Sei personaggi in cerca d'autore*. Saba: *Canzoniere*. Ungaretti: *L'allegría*, *Sentimento del Tempo*. Montale: *Ossi di Seppia*. Quasimodo: *Ed e'subito sera*.

0352 — Pavese: *La Luna e i falo*. Moravia: *Agostino*, *Racconti romani*. Silone: *Pane e Vino*. Vittorini: *Conversazioni in Sicilia*, and others. 3 s.h. ea.

Prerequisite: Italian 0151 or equivalent.

P 1104 0361 and 0362 Italian Literature of the 19th Century

Neo-classicism, Romanticism, and *Verismo*.

0361 — Foscolo: *Sonetti, Sepolcri, Ultime Lettere di Jacopo Ortis*. Manzoni: *Inni Sacri*, *Promessi Sposi*. Leopardi: *Canti*, *Operette Morali*.

0362 — Carducci: *Rime Nuove*, *Odi Barbare*, *Rime*. Pascoli: *Odi e Inne Myricae*. Verga: *Novelle Rusticane*. D'Annunzio: *Laudi*, *Novelle della Pescara*. 3 s.h. ea.

Prerequisite: Italian 0151 or equivalent.

P 1104 0371 Italian Literature of the 13th and 14th Centuries

The most important representatives of the Sicilian and Tuscan schools, with particular attention to the *Dolce Stil Novo* and the works of Dante. 3 s.h.

Prerequisite: Italian 0152 or equivalent.

1104 0375 Study Abroad

Study at an Italian university; opportunity to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation

Prerequisite: Permission of Department Chairman.

1104 0377 Italian Literature of the 18th Century

The most important representatives of this Century. Goldini: "Memoires e la riforma della Commedia, Bottega del caffè, La moglie saggia, Il Vero Amico, La Locandiera, etc. Parini: Giorno, Odi. Alfieri: Rime, Saul, Mirra, Il Divorzio. 3 s.h.

Prerequisite: Italian 0151 or equivalent.

1104 0410 Italian Grammar for Teachers

Structural features of Italian; areas of interference with English structure which present the greatest difficulties to the student of Italian. 3 s.h.

Prerequisite: Italian 0310 or equivalent.

1104 0419 The Teaching of Italian in Secondary Schools

aims, objectives, and methods of teaching Italian in secondary schools; textbooks, supplementary teaching material, the language laboratory, tests, etc. 3 s.h.

Prerequisite: Senior standing.

1104 0461 Dante Seminar I

Medieval thought as represented in Dante's works. A selection of readings from *Vita nova*, *Convivio*, *Monarchia*, Analysis and exegesis of *Inferno*. 3 s.h.

Prerequisite: 0151 and 0152.

1104 0462 Dante Seminar II

Medieval thought as represented in Dante's works. A selection of readings from *Vita nova*, *De Vulgari Eloquentia*, *Convivum*, and *Divina Commedia* read and analyzed. 3 s.h.

Prerequisite: Italian 0152 or equivalent.

P 1104 0470 Senior Seminar

The techniques of literary research based on selected topics from Italian literature.
Prerequisite: Senior majors only.

3 s.h.

P 1104 0480 Independent Study

Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives. 3 s.h.
Prerequisites: 24 hours of major Italian credits.

Humanities Elective Courses

P 4903 0161 Magic Realism in Spanish American Literature (in English Translation)

A study of magic realism as manifested in representative works of contemporary Spanish-American fiction. Works to be read in English translation. 3 s.h.

P 4903 0180 Luso-Brazilian Literature

A study of the major writers in the Portuguese-speaking world in the 19th and 20th centuries, including Machado de Assis and Eca de Quieros. Taught in English. 3 s.h.

P 4903 0276 The Golden Age (in English)

Major dramatists of the peninsular Spanish Golden Age; Lope de Vega, Tirso de Molina, Ruiz de Alarcon and Calderon de la Barca. 3 s.h.

P 4903 0278 Spanish Literature of the 20th Century

Major novelists and dramatists of the 20th century in Spain, from the Generation of '98 to the contemporary authors. 3 s.h.

P 4903 0277 The Italian Cinema

Development of the Italian cinema from neo-realism to today. In particular dealing with the following directors: Rossellini, Fellini, DeSica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. 3 s.h.

P 4903 0280 20th Century Italian Literature

Selected writers illustrating the main currents of 20th century Italian literature Pirandello, Ungaretti, Montale, Pavese, Betti, Vittorini, Silone, Moravia and others. 3 s.h.

P 4903 0372 Contemporary Latin-American Theater in Translation

This course aims at acquainting the student with the major trends and dramatics in Twentieth Century Latin-American Theater. 3 s.h.

P 4903 0373 Spanish-American Poetry in Translation

A study of contemporary poetry in Spanish America from Modernism to the present considering the leading currents and figures in the major movements. 3 s.h.

P 4903 0376 Spanish-American Short Story

Trends in the modern short story in Spanish America and its importance as a genre in the literary life of Spanish America. 3 s.h.

P 4903 0377 The Italian American Novel

A presentation of representative works of Italian-American authors dealing with the problems of the Italian immigrant as he/she inserts him/herself into the American mainstream. DiDonato's *Naked As An Author*, Puzo's *Godfather* and *The Fortunate Pilgrim*, and Fante's *Dago Red* are some of the works to be considered. 3 s.h.

P 4903 0378 Modern Spanish-American Novel

Development of the novel in Spanish America in the 20th century. Readings and discussion of representative works. 3 s.h.

P 4903 0379 Dante

A critical study of Dante, considering especially *The Divine Comedy* and other selected works in their medieval context. 3 s.h.

P 4903 0380 Italian Humanism and Renaissance

The works of Petrarch, Boccaccio and Machiavelli, and a secondary consideration of works of other authors of the Renaissance. 3 s.h.



SCHOOL OF MATHEMATICS AND SCIENCE

Richard A. Lynde, Ph.D., Interim Dean
Marie Frazee, Ed.D., Academic Advisor

Reflecting the close affinity of disciplines within the natural and mathematical sciences, the School of Mathematics and Science includes the Departments of Biology, Chemistry, Mathematics, and Physics-Geoscience.

Programs offered by the School are designed to achieve two specific instructional goals: to provide majors within the School of Mathematics and Science an opportunity to achieve a significant depth of knowledge within a discipline, and to interpret for the college community the role played by mathematical and experimental methods in gaining knowledge and understanding of the universe and the significance of new scientific knowledge to our lives. The constantly evolving nature of the math-science disciplines stimulates continual curriculum evaluation and revision and the establishment of new programs, such as the computer science minor, when appropriate.

Separately, or in combination, the programs provide appropriate preparation for professional training (primarily in medicine and dentistry) and for graduate work and employment in a wide range of math-science related fields. In addition, the School offers outstanding teacher-preparation programs leading to certification in the biological or physical sciences or mathematics.

Lecture and laboratory facilities of the School are located in Finley Hall (biology), Mallory Hall (biology, geoscience), and the Mathematics and Science Building (chemistry, mathematics, and physics). A vigorous undergraduate research program is supported in each department by the availability of a wide selection of major equipment and individual research carrels. The College is a member of the New Jersey Educational Computer Network, the extensive facilities of which are available to students through the Computer Center in the Mathematics and Science Building. In addition, the College is a charter member of the New Jersey Marine Sciences Consortium. A special asset of the School is its location in northern New Jersey, which has one of the largest concentrations of scientific research organizations in the country. Liaison with industry and scientific professional organizations in the area provides the School with unique resources and opportunities for study and research.

Students play an integral part in the governance of the School through membership on the faculty-student Senate and on various committees at the department level.

DEPARTMENT OF BIOLOGY

Professors: Koditschek, Kuhnen, Shubeck, Chairman

Associate Professors: Kane, McCormick, Pai, Shillcock

Assistant Professors: Cribben, Dilorenzo, Kennett, Koepp,

Sawitz, Stein, Surgan

Major course requirements with the proper selection of elective courses will enable the student to prepare for graduate work in the major field, or will serve as a pre-professional program for medicine, dentistry, medical technology and other biology-related fields. The student preferring certification to teach biology can obtain it by fulfilling the "Professional Sequence."

Freshman courses offered for the biology majors assume that the student has been exposed to biology, chemistry and physics, and at least three years of college preparatory mathematics in high school.

Biology Major

I. Biology Requirements		semester hours
*Q 0401 0140	The Biology of the Cell	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0131	Vertebrate Zoology	4
Q 0401 0412	Genetics	4
*Those planning on entering the Teacher Certification program must take instead Q 0401 0120 Plant Form and Function 4 s.h.		
II. Collateral Requirement: 30 semester hours from		
R 1905 0120, 0121	General Chemistry I-II	4 ea.
R 1905 0230, 0231	Organic Chemistry I-II	3 ea.
R 1905 0232	Experimental Organic Chemistry I	2
T 1902 0103, 0104	College Physics I-II	4 ea.
6 Semester Hours selected from:		
S 1701 0115	Introductory Mathematical Analysis	3
S 1701 0122, 0221, 0222	Calculus I-II-III	4 ea.
S 1701 0117, 0118	Mathematics for Biological Sciences I-II	3 ea.
REQUIRED TOTAL		30
III. Electives: 14-15 semester hours from		
Q 0401 0213	Introduction to Field Biology	2
Q 0401 0300	Environmental Biology and Related Controversial Issues	3
Q 0401 0310	Evolution	3
Q 0401 0330	Introduction to Animal Behavior	4
Q 0401 0331	Biology of Animal Parasites	4
Q 0401 0350	Elementary Microbiology	4
Q 0401 0408	Ultrastructural Interpretation	3
Q 0401 0409	Field Experience in Current Laboratory Research	2-4
Q 0401 0410	Biological Science Demonstrations	4
Q 0401 0411	Introduction to Electron Microscopy	4
Q 0401 0413	Field Studies in Sciences: Biology	2
Q 0401 0414	Problems in Field Studies in Biology	2
Q 0401 0417	Research Seminar in Biological Literature	2
Q 0401 0418	Biology Independent Study	Credit by Arrangement
Q 0401 0419	History and Philosophy of the Life Sciences	2
Q 0401 0420	Economic Botany	3
Q 0401 0424	Morphology of Flowering Plants	4
Q 0401 0425	Elementary Plant Physiology	4
Q 0401 0426	New Jersey Flora	4
Q 0401 0430	Field Ornithology	3
Q 0401 0431	Entomology	3
Q 0401 0432	Medical Entomology	2
Q 0401 0440	Mammalian Anatomy and Histology	4
Q 0401 0441	Comparative Anatomy of the Vertebrates	4
Q 0401 0442	Human Physiology	4
Q 0401 0443	Comparative Vertebrate Embryology	4
Q 0401 0444	Cell Physiology	5
Q 0401 0445	Immunology	3
Q 0401 0446	Endocrinology	3
Q 0401 0451	Bacterial Physiology	4
Q 0401 0460	Biological Oceanography	3
Q 0401 0461	Limnology	3
Q 0401 0462	Advanced Marine Biology	4
Q 0401 0463	Marine Invertebrate Zoology	4
Q 0401 0464	Marine Botany	4
Q 0401 0465	Biology of Marine Plankton	4
Q 0401 0467	Marine Ichthyology	4

Q 0499 0000	Techniques		
Q 0499 0401	Field Methods in Oceanography and Marine Biology		1
Q 0499 0402	Plankton Sampling and Analysis		1
Q 0499 0403	Primary Production in the Marine Environment: Techniques and Measurement		
Q 0499 0404	Plant and Animal Histological Techniques		3
Q 0499 0405	Cell Culture		3
R 1905 0435	Biochemistry		4
T 1914 0433	Invertebrate Paleontology		4
		REQUIRED TOTAL	34

The electives available permit concentration in a number of areas. See your department faculty advisor for recommendations as to electives most applicable to your field of interest. All elective courses are not offered every year.

Minor in Biology (Arts and Sciences Programs)

Required Courses		semester hours
Q 0401 0140	The Biology of the Cell	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0131	Vertebrate Zoology	4
Q 0401 0412	Genetics	4
	REQUIRED TOTAL	20

SECOND TEACHING FIELD

Students majoring in another field who desire a certification in Biology in addition to one in their major field must take the following 24 semester hours program:

Q 0401 0120	Plant Form and Function	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0131	Vertebrate Zoology	4
Q 0401 0412	Genetics	4
	Biology Elective	4
	REQUIRED TOTAL	24



Biology

Course Descriptions

Q 0401 0100 Biological Sciences

Organization and behavior of plants and animals, mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

Q 0401 0103 and 0104 General Biology I and II

Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h. ea.

Q 0401 0106 Social Behavior of Animals for the Layman

Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors. 3 s.h.

Q 0401 0107 Biology for Survival

Basic concepts of Biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. For non-science majors. (3 hrs. lecture) 3 s.h.

Q 0401 0108 Dietary Pathology for the Layman

Relationship of foods and common functional disabilities. For non-science majors. (2 hrs. lecture) 2 s.h.

Q 0401 0120 Plant Form and Function

Morphology and physiology of the cell and higher plants. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Q 0401 0121 The Plant Kingdom

Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Q 0401 0130 Invertebrate Zoology

Form, function, ecology, evolutionary development of the invertebrates. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Q 0401 0131 Vertebrate Zoology

Form, function, ecology and evolution of vertebrates. (2 hrs., lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130.

Q 0401 0140 Biology of the Cell

Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory) 4 s.h.

Q 0401 0212 Genetics for the Layman

Basic genetic principles and modern molecular genetics and their application to human heredity, medicine, the future of man and our natural world. (2 hrs. lecture) 3 s.h.

Q 0401 0213 Introduction to Field Biology

Biology, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest. 2 s.h.

Q 0401 0240 and 0241 Mammalian Anatomy and Physiology I and II

The anatomy and physiology of the human organism. Primarily for sophomore Physical Education majors. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h. ea.

Q 0401 0242 Human Biology

Body structure and functions in relation to the maintenance of good health. Not for Biology majors. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Q 0401 0250 Applied Microbiology

Microbiological concepts and techniques applicable to food and dairy sanitation, water, air pollution, sewage and other environmental problems. Not for Biology majors. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: One year of Chemistry or equivalent.

Q 0401 0260 Introduction to Marine Biology

Field and laboratory-oriented course, collecting and identifying local marine flora and fauna. Offered at the N.J. Marine Sciences Consortium during the summer. Not for Biology majors. 4 s.h.

Prerequisite: Two years of high school Biology or one course in college Biology.

Q 0401 0300 Environmental Biology and Related Controversial Issues

Analysis of ecological problems of today: population trends and control, food production, environmental deterioration, waste disposal, etc. (3 hrs. lecture) 3 s.h.

Prerequisite: 12 semester hours of Biology.

Q 0401 0310 Evolution

Theories of biological variation, species formation and race. (3 hrs. lecture) 3 s.h.

Prerequisite: Zoology and/or Botany.

Q 0401 0330 Introduction to Animal Behavior

Patterns, underlying mechanisms, ontogeny and phylogeny of animal behavior. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130 and Q 0401 0131 plus 4 additional semester hours of Biology.

Q 0401 0331 Biology of Animal Parasites

The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host. (3 hrs. lecture, 3 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130 and Q 0401 0131.

Q 0401 0350 Elementary Microbiology

A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: General Biology, General Chemistry.

Q 0401 0370 Principles of Ecology

To acquaint the Biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. 3 s.h.

Prerequisite: 12 credits of major Biology courses including one semester of botany and one semester of zoology.

Q 0401 0408 Ultrastructural Interpretation

Analysis of electron micrographs representing a wide range of biological specimens. Includes artifact recognition, identification of cellular organelles and fractions, and characterization of selected cellular pathologies. (3 hrs. lecture) 3 s.h.

Prerequisite: 12 credits in Biology plus Q 0499 0404 and Q 0401 0411.

Q 0401 0410 Biological Science Demonstrations

Individual and group experiments in demonstrations applicable to the high school laboratory. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: 1 year of Biology.

Q 0401 0411 Introduction to Electron Microscopy

Basic theory and practice of electron microscopy. Specimen preparation, ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory) 4 s.h.

Prerequisites: 18 hours Biology including Q 0499 0404 and permission of instructor.

Q 0401 0412 Genetics

Mendelian Laws to Molecular Genetics, structure and function of the gene, its transmission, the regulation of gene action and mutation. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: 1 year of Chemistry and Q 0401 0120 or Q 0401 0140 or its equivalent.

Q 0401 0413 Field Studies in Science: Biological

Identification and natural history of fauna and flora. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: 1 year of Biology.

Q 0401 0414 Problems in Field Studies in Biology

Student will work out a problem in field science. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: Q 0410t0413 or its equivalent, plus at least 12 semester hours of Biology.

Q 0401 0417 Research Seminar in Biological Literature

Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: Open to Biology majors with approval of the Department Chairman.

Q 0401 0418 Biology Independent Study

Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/oral report is required. (Offered on demand) 1-4 s.h.

Prerequisite: Approval by the Department Chairman

Q 0401 0419 History and Philosophy of the Life Sciences

Historical survey of the major trends in the development of scientific thought. (Not offered every year) (2 hrs. lecture) 2 s.h.

Q 0401 0420 Economic Botany

Importance of plants to the world in general and to man in particular. (Not offered every year) (3 hrs. lecture) 3 s.h.

Prerequisite: Q 0401 0120 or Q 0401 0121.

Q 0401 0424 Morphology of Flowering Plants

Structure, evolutionary development and taxonomy of flowering plants with greatest emphasis on variation in floral morphology. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0120 or Q 0401 0121.

Q 0401 0425 Elementary Plant Physiology

Major physiological processes of the flowering plant: growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0120, Q 0401 0121 and R 1905 0230, 0231. Organic Chemistry I, II.

Q 0401 0426 New Jersey Flora

Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year) (3 hrs. lecture, 3 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0121 or equivalent.

Q 0401 0430 Field Ornithology

Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year) (1 hr. lecture, 3 hrs. laboratory) 3 s.h.

Prerequisite: A year of Biology or its equivalent.

Q 0401 0431 Entomology

Identification, physiology and ecology of common insect families. (Not offered every year) (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Q 0401 0432 Medical Entomology

The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: Q 0401 0130 and/or Q 0401 0431.

Q 0401 0433 Seashore Entomology

Ecological studies of the insect fauna found in the unique habitats of the (1) intertidal zone, (2) coastal sand dunes and (3) salt marsh found along the N.J. shoreline. 2 s.h.

Prerequisite: Q 0401 0130 and Q 0401 0431 or permission of instructor. 2 s.h.

Q 0401 0434 Seashore Ornithology

Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at N.J. Marine Sciences Consortium. 2 s.h.

Prerequisite: Q 0401 0430 or equivalent or permission of instructor.

Q 0401 0440 Mammalian Anatomy and Histology

Mammalian body systems and their component tissues through dissection of a representative mammal and use of prepared slides. (2 hrs. lecture, 4 hrs. laboratory)

Prerequisite: Q 0401 0131. 4 s.h.

Q 0401 0441 Comparative Anatomy of the Vertebrates

Ontogeny and morphology of representative taxa of the Protochordates and Chordates. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0131 or Q 0401 0440.

Q 0401 0442 Human Physiology

Functions of animal organs and systems with emphasis on maintenance of homeostasis. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0440 or equivalent.

Q 0401 0443 Comparative Vertebrate Embryology

Developmental anatomy of the vertebrates, especially amphibian, chick and human. (General concepts of development and cell differentiation. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130, Q 0401 0131.

Q 0401 0444 Cell Physiology

Advanced course in phenomena in cell function. Individual experimental problems using specialized instrumentation are assigned in the laboratory. Open to Biology majors with approval of instructor. (3 hrs. lecture, 3 hrs. laboratory) 5 s.h.

Prerequisite: Q 0401 0442 and Q 1905 0230 Organic Chemistry.

Q 0401 0445 Immunology

Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year) (3 hrs. lecture) 3 s.h.

Prerequisite: 20 semester hours of Biology.

Q 0401 0446 Endocrinology

Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed. 3 s.h.

Prerequisite: One year of Biology.

Q 0401 0451 Bacterial Physiology

Type organisms are examined to demonstrate structure, function autotrophy, heterotrophy, phototrophy, symbiosis, antibiosis and other ecological phenomena. Laboratory experiments develop advanced techniques. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0350, Q 0401 0444, R 1905 0230, 0231 Organic Chemistry I, II and/or R 1905 0435 Biochemistry.

Q 0401 0460 Biological Oceanography

Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year) (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: Q 0401 0130, Q 0401 0121 and one year of Chemistry.

Q 0401 0461 Limnology

Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year) (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: One year of Chemistry and one year of Biology or permission of instructor.

Q 0401 0462 Advanced Marine Biology

Interrelationships of marine animals and plants. Salinity, temperature, light, oxygen, dissolved substances. Topics also include primary production, symbiosis, predation, energy flow and ecosystem. Field work. Offered at the N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: R 1905 0120, 0121 General Chemistry I & II, a year of Biology or permission of the instructor.

Q 0401 0463 Marine Invertebrate Zoology

Interrelationships of marine pelagic and benthonic invertebrates. Also offered at the N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130, Q 0401 0131 or permission of the instructor.

Q 0401 0464 Marine Botany

Structure, systematics, physiology and ecology of marine algae and metaphyta of estuary and tidal marsh. Field work. Also offered at the N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0120 and Q 0401 0121, or permission of the instructor.

Q 0401 0465 Biology of Marine Plankton

Collection, analysis, interpretation of the occurrence of marine plankton. Field trips. Also at N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0130 and 2 additional semester hours of Biology.

Q 0401 0467 Marine Biology of the Fishes

Systematics, adaptations, reproduction, evolution, ecology and zoogeography of major groups of marine fishes. At N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Q 0401 0131 and Q 0401 0442.

Q 0401 0468 Marine Energy Systems

Principles of production and energy transfer in the marine environment. Spatial and temporal distribution of productivity. Productivity measurement and assessment of the roles of plants, herbivores and carnivores in marine energetics. Offered at N.J. Marine Sciences Consortium.

2 s.h.

Prerequisite: One year of Physics, one year of Organic Chemistry, one year of Biology, and one semester of Calculus.

Q 0499 0401 Field Methods in Oceanography and Marine Biology

Application and techniques of marine samplings. N.J. Marine Sciences Consortium.

Prerequisite: 16 semester hours in Biology or Geoscience.

1 s.h.

Q 0499 0402 Plankton Sampling and Analysis

Sampling, identification and counting of phytoplankton and zooplankton. N.J. Marine Sciences Consortium.

1 s.h.

Prerequisite: Biology major or permission of the instructor.

Q 0499 0403 Primary Production in the Marine Environment

Theory and techniques of primary production measurement. At N.J. Marine Sciences Consortium.

1 s.h.

Prerequisite: 16 semester hours in Biology or Geoscience.

Q 0499 0404 Plant and Animal Histological Techniques

Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory)

3 s.h.

Prerequisite: 12 semester hours of Biology.

Q 0499 0405 Cell Culture

Theory of and practice in working with living cells: tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.

3 s.h.

Prerequisite: All required biology courses (20 hrs.) plus permission of instructor.



DEPARTMENT OF CHEMISTRY

Professors: Becker, Gawley

Associate Professors: Flynn, Gallopo, Garik, Lynde, Zabady

Assistant Professors: Isidor, Chairman; Awadallah, Fink, Kasner, Lyndrup, Paisley

Major course requirements and the selection of appropriate elective courses will enable a student to prepare for:

- I Graduate study in chemistry or biochemistry
- II Professional programs in science-related fields
- III Professional employment
- IV Teacher certification

The chemistry program meets the criteria established by the American Chemical Society for undergraduate education in chemistry and is included in the ACS list of approved programs. Students who successfully complete the certification program will have fulfilled the minimum requirements for professional education as adopted by the ACS and will be certified to the Society upon graduation.

Students interested in teacher certification should complete the professional sequence of the Teacher Education Program in addition to completing the chemistry major requirements.

The curriculum designed for chemistry majors assumes that students have been exposed to chemistry, biology and physics, as well as four years of high school college preparatory mathematics.

Chemistry Major*

I. Chemistry Requirements		semester hours
R 1905 0120, 0121	General Chemistry I-II.....	4 ea.
R 1905 0230, 0231	Organic Chemistry I-II	3 ea.
R 1905 0232, 0233	Experimental Organic Chemistry I-II.....	2 ea.
R 1905 0340, 0341	Physical Chemistry I-II	3 ea.
R 1905 0342, 0343	Experimental Physical Chemistry I-II	2 ea.
II. Collateral Requirements:		
Three Mathematics Courses from.....		12
S 1701 0122, 0221, 0222	Calculus I-II-III	
S 1701 0420	Differential Equations	
T 1902 0101	General Physics I-II.....	4 ea.
II. Electives: at least 6 semester hours from the following:		
R 1905 0310, 0311	Quantitative Analysis I-II	4 ea.
R 1905 0410	Advanced Quantitative Analysis.....	4
R 1905 0421	Descriptive Inorganic Chemistry	3
R 1905 0422	Experimental Inorganic Chemistry.....	3
R 1905 0423	Theoretical Inorganic Chemistry	3
R 1905 0430	Advanced Organic Chemistry	3
R 1905 0440	Physical Chemistry III	3
R 1905 0445	Radiochemistry	3
R 1905 0470	Biochemistry.....	3
R 1905 0472	Experimental Biochemistry.....	2
R 1905 0490	Selected Topics in Chemistry	3
R 1905 0495	The Chemical Literature.....	1 or 2
R 1905 0498	Senior Laboratory.....	3
R 1905 0499	Undergraduate Research.....	1, 2, or 3
REQUIRED TOTAL		54

A.B.S. degree in Chemistry has recently been approved. Information regarding requirements is available in the department office.

Chemistry Major—ACS Certification

In addition to courses fulfilling the general education requirement and the courses listed in I and II of the Chemistry Major program, a student who wishes to fulfill the minimum requirements for professional training of the ACS should elect the following courses:

I.	R 1905 0310, 0311 Quantitative Analysis I-II	8
	R 1905 0440 Physical Chemistry III	3
II.	R 1905 0422 Experimental Inorganic Chemistry	3
	R 1905 0423 Theoretical Inorganic Chemistry	3
	or	
	R 1905 0470 Biochemistry	3
	R 1905 0472 Experimental Biochemistry	2
III.	R 1905 0498 Senior Laboratory	3
	or	
	R 1905 0499 Undergraduate Research	3
IV.	At least one additional course from the following:	
	R 1905 0410 Advanced Quantitative Analysis	4
	R 1905 0423 Theoretical Inorganic Chemistry	3
	R 1905 0430 Advanced Organic Chemistry	3
	R 1905 0470 Biochemistry	3
	R 1905 0490 Selected Topics in Chemistry	3

REQUIRED MINIMUM 22-24

The learning of certain other skills might be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French

Mathematics: Linear algebra

Computer Science: programming ability in BASIC and FORTRAN.

Chemistry Minor

I. Chemistry Requirements:

R 1905 0120, 0121 General Chemistry I-II	4 ea
R 1905 0230, 0231, 0232 Organic Chemistry I-II and Experimental Organic Chemistry	8
R 1905 0340, 0342 Physical Chemistry I and Experimental Physical Chemistry I	5
	REQUIRED TOTAL 21

SECOND TEACHING FIELD IN PHYSICAL SCIENCE

There is no New Jersey certification in the field of chemistry alone. Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following program:

T 1902 0101, 0102 General Physics I-II	4 ea
Physics Elective	
R 1905 0120, 0121 General Chemistry I-II	4 ea
R 1905 0230, 0232 Organic Chemistry I and Experimental Chemistry I	2
	REQUIRED TOTAL 2

Chemistry Course Descriptions

R 1905 0100 Introductory Chemistry

A non-laboratory survey course in modern chemistry for non-science majors. 3 s.h.

R 1905 0107 and 0108 College Chemistry I and II

Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry. A sequential six credit course. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h. ea.

Prerequisite for 0108: R 1905 0107.

R 1905 0120 and 0121 General Chemistry I and II

Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electrochemistry, and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems. (3 hrs. lecture, 3 hrs. laboratory) 4 s.h. ea.

Prerequisite for 0120: Completion of one year of secondary school Chemistry or R 1905 0107.

Prerequisite for 0121: R 1905 0120.

R 1905 0130 Survey of Organic Chemistry

Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. Laboratory work to reinforce concepts studied in lecture and increase experimental capabilities. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

Prerequisite: R 1905 0107 or equivalent.

R 1905 0230 and 0231 Organic Chemistry I and II

Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties. (lecture) 3 s.h. ea.

Prerequisite for 0230: R 1905 0121.

Prerequisite for 0231: R 1905 0230 and 0232.

R 1905 0232 and 0233 Experimental Organic Chemistry I and II

A laboratory course to be taken concurrently with R 1905 0230 and 0231. Basic laboratory techniques and experiments in organic chemistry. (4 hrs. laboratory) 2 s.h. ea.

R 1905 0270 Survey of Biochemistry

Structure and function of the biomolecules and the metabolic interrelationships in the cell. (4 hrs. lecture, 2 hrs. laboratory) 5 s.h.

Prerequisite: R 1905 0130.

R 1905 0310 Quantitative Analysis I

Theory and practice of analysis; acidimetry, gravimetry and redox methods. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: R 1905 0231 and R 1905 0233.

R 1905 0311 Quantitative Analysis II

Instrumental methods including potentiometry, conductometry, polarography, colorimetry, electrodeposition and compleximetry. (2 hrs. lecture, 4 hrs. laboratory)

Prerequisite: R 1905 0340 and R 1905 0342. 4 s.h.

R 1905 0340 Physical Chemistry I

Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties. (lecture) 3 s.h.

Prerequisites: R 1905 0231, R 1902 0102 General Physics II, S 1701 0222 Calculus III.

R 1905 0341 Physical Chemistry II

Kinetics, photochemistry, molecular physical chemistry. (lecture) 3 s.h.
 Prerequisite: R 1905 0231, R 1902,0102 General Physics II, S 1701 0222 Calculus III.

R 1905 0342 and 0343 Experimental Physical Chemistry I and II

A laboratory course to be taken concurrently with R 1905 0340 and 0341. Application and experience with modern techniques of physical chemistry. (4 hrs. laboratory) 2 s.h. ea.

R 1905 0410 Advanced Quantitative Analysis

Extends methods of analysis in R 1905 0311. Absorption and emission spectroscopy, photometry, NMR, ESR, GC, thermoanalysis, polarography, amperometry and principles of automatic analysis. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.
 Prerequisite: R 1905 0311 and R 1905 0341.

R 1905 0411 Water Analysis and Purification

Modern chemical and biological techniques utilized in analysis and purification of water. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.
 Prerequisite: R 1905 0310 or permission of the instructor.

R 1905 0421 Principles of Descriptive Inorganic Chemistry

Chemistry of the elements and their compounds. Industrially and theoretically significant compounds and reactions illustrate utility of periodic chart in systematizing and predicting chemical reactivity. (2 hrs. lecture) 2 s.h.
 Prerequisite: R 1905 0231.

R 1905 0422 Experimental Inorganic Chemistry

Practical experience utilizing a broad selection of modern techniques for the synthesis and characterization of inorganic compounds. (1 hr. lecture, 4 hrs. laboratory)
 Prerequisite: Completion or current election of R 1905 0340. 3 s.h.

R 1905 0423 Principles of Theoretical Inorganic Chemistry

Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and non-aqueous solutions, coordination chemistry and chemical periodicity. (lecture) 3 s.h.
 Prerequisite: R 1905 0340, S 1701 0222 Calculus III.

R 1905 0430 Advanced Organic Chemistry

Consideration of structural and electronic theories which form the basis of organic chemistry. (Lecture) 3 s.h.
 Prerequisite: R 1905 0231.

R 1905 0440 Physical Chemistry III

Quantum mechanics, bonding theory, atomic structure, statistical thermodynamical calculations. (lecture) 3 s.h.
 Prerequisite: R 1905 0340, S 1701 0420 Differential Equations.

R 1905 0445 Radiochemistry

Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems. (lecture)
 Prerequisite: R 1905 0340. 3 s.h.

R 1905 0447 Biophysical Chemistry

Thermodynamics, equilibria, transport processes, kinetics, and electrochemistry applied to cellular processes. (lecture) 3 s.h.
 Prerequisite (or co-requisite): R 1905 0470 or Q 0401 0444 Cell Physiology or permission of the instructor; S 1701 0117 and 0118 Mathematics for the Life Sciences and II.



R 1905 0460 Industrial Chemistry

Survey of chemical industry involving lectures and plant visits. (Not given every summer) (2 hrs. lecture and field trips) 4 s.h.

Prerequisite: R 1905 0232.

R 1905 0470 Biochemistry

Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis. 3 s.h.

Prerequisite: R 1905 0231.

R 1905 0472 Experimental Biochemistry

Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques. Opportunity is provided for individual projects. 2 s.h.

Prerequisite: R 1905 0231 and/or concurrently R 1905 0470.

R 1905 0490 Selected Topics in Chemistry

In-depth study of a modern aspect of chemistry. 2 or 3 s.h.

Prerequisite: R 1905 0340 or permission of instructor.

R 1905 0495 The Chemical Literature

The chemical literature and techniques of extracting information from it. 1 or 2 s.h.

Prerequisite: At least 18 semester hours of chemistry and recommendation of instructor.

R 1905 0498 Senior Laboratory

Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds. (1 hr. lecture, 4 hrs. laboratory) 3 s.h.

Prerequisite: R 1905 0311, R 1905 0341, R 1905 0343.

R 1905 0499 Undergraduate Research

Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor. 1-3 s.h.

Prerequisite: At least 27 semester hours in chemistry and recommendation of faculty sponsor.

DEPARTMENT OF MATHEMATICS

Professor: Maletsky, Sobel, Stoddard

Associate Professors: Garfunkel, Chairman; Chai, Demetropoulos, Koellner, Lacatena, Parzynski, Stevens, Stewart, Westphal

Assistant Professors: Ahluwalia, Anderson, Benton, Boyno, Bredlau, Carroll, Devlin, Gottschall, Gugel, Kalmanson, Kenschaft, Leef, Netter, Othmer, Roberts, Russell, Williamson, Wolff, Zipse

The department offers a major and a minor program in mathematics, and a major and a minor program in computer science. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science.

Students majoring in mathematics who desire teacher certification must complete the professional sequence and the following courses: S 1701 0350, 0431, and 0470. Students majoring in another field who desire a teaching certificate in mathematics in addition to one in their major field must take an approved 24-hour program in mathematics that includes a calculus sequence, S 1701 0335 and 0350.

Mathematics Major*

Requirements

All mathematics majors must demonstrate proficiency in calculus, linear algebra, elementary computer programming, and probability. This requirement is usually satisfied by completing:

S 1701 0122	Calculus, I	4 s.h.
S 1701 0161	Introduction to Computing	1 s.h.
S 1701 0221	Calculus, II.	4 s.h.
S 1701 0222	Calculus, III	4 s.h.
S 1701 0283	Foundations of Computer Science, I.	3 s.h.
S 1701 0335	Elements of Linear Algebra.	3 s.h.
S 1701 0340	Probability	3 s.h.

Students who have taken high-school courses in the above areas may receive advanced placement with credit based on either the Advanced Placement Examination or on a standardized departmental examination.

Students who do not qualify for placement in Calculus, I, should begin their work in mathematics with S 1701 0115, Introductory Mathematical Analysis. Credit for this course would come from the student's free electives.

Required Collateral Course 2 s.h.

The mathematics major is required to take eight semester-hours in supporting courses in physics. Six semester-hours of this work have been credited to Section IV — General Education, part A — Distribution Requirement — Theoretical and Applied Sciences.

S 1902 0101, 0102 General Physics, I & II 8 s.h.

Elective Mathematics Major Courses. 18 s.h.

At least 18 s.h. must be selected from the following list of departmental courses.

S 1701 0350	College Geometry (Required for Math. Teacher Ed.)	3 s.h.
S 1701 0420	Differential Equations	3 s.h.
S 1701 0423	Introduction to Complex Variables	3 s.h.
S 1701 0425	Advanced Calculus, I	3 s.h.
S 1701 0426	Advanced Calculus, II.	3 s.h.
S 1701 0428	Introduction to Topology.	3 s.h.
S 1701 0431	Foundations of Modern Algebra (Required Teacher Ed.)	3 s.h.
S 1701 0433	Theory of Numbers.	3 s.h.
S 1701 0436	Elements of Logic.	3 s.h.

S 1701 0440	Statistical Methods for Research.....	3 s.h.
S 1701 0443	Statistics: Theory and Applications.....	3 s.h.
S 1701 0450	Foundations of Geometry	3 s.h.
S 1701 0460	Introduction to Applied Mathematics	3 s.h.
S 1701 0463	Introduction to Numerical Analysis	3 s.h.
S 1701 0464	Applied Methods: Operations Research	3 s.h.
S 1701 0465	Linear Programming and Game Theory.....	3 s.h.
S 1701 0471	Selected Topics in Modern Mathematics	3 s.h.
S 1701 0475	History of Mathematics.....	3 s.h.
S 1701 0495	Seminar in Mathematics I.....	1-3 s.h.
S 1701 0496	Seminar in Mathematics, II.....	1-3 s.h.

(Total Required Credits in Mathematics = 40 s.h.)

Students should choose courses from the elective list that are consistent with their professional goals. Students who are interested in the following areas should select a minimum of three courses from the appropriate list.

1. Graduate School Preparation: S1701 0425, 0426, 0428, 0431.
2. Statistics: S 1701 0425, 0440, 0443.
3. Teacher Education - See page 5, Section 5.
4. Computer Science: The Department of Mathematics offers both a major and a minor program in the field of computer science. The curriculum guides for these programs may be obtained in the School Counseling Office. Students who wish to pursue a dual major program — mathematics and computer science — should check with the Chairman of the Mathematics Department for advice in arranging a dual major program in these areas.

Computer Science Courses: S 1701 0261, 0284, 0285, 0380, 0381, 0383, 0463, 0464, 0480, 0481, 0484.

Minor in Mathematics

(Arts and Sciences Programs)

Students may earn a minor in the field of mathematics by completing an approved 18-hour program in mathematics that includes a calculus sequence and S 1701 0335.

Computer Science Major

The requirements include: (1) foundation courses in computer science; (2) collateral requirements in calculus or economics and management sciences; (3) electives from the computer science and applied mathematics areas; and, (4) the normal general education requirements. Students will be counselled to take as many administrative science, statistics, and natural science electives as possible. This will ensure maximum flexibility in employment opportunities and future growth potential.

I. Major Requirements:.....	57-58
A. Required Major Courses	9
B. Major Electives	27
C. Required Collateral Courses	20-21
II All-College Requirements:.....	37-46
A. General Education	36
1. Common Core 18	
2. School Core 18	
B. Communications	0-9
C. Physical Education.....	1
III. Free Electives	24-34
	TOTAL 128

The specific requirements for the major are as follows:

I. Requirements:		semester hours
S 1701 0283/4 Foundations of Computer Science I, II	3 ea.	
S 1701 0285 Discrete Structures	3	
II. Collateral Requirements:		
S 1701 0122, 0221, 2 Calculus I, II, III	4 ea.	
One of the following sequences	8-9	
1. T 1902 0101/2 General Physics I, II		
2. R 1905 0120/1 General Chemistry I, II		
3. S 2204 0101/2 Principles of Economics: Macro, Micro		
U 0506 0231 The Management Process		
III. Electives: 27 semester hours from:		
S 1701 0261 Introduction to Computer Applications II	3	
S 1701 0335 Elements of Linear Algebra	3	
S 1701 0340 Probability	3	
S 1701 0380 Assembler Language Programming	3	
S 1701 0383 Data Structures	3	
S 1701 0381 Information Processing Methods	3	
S 1701 0463 Introduction to Numerical Analysis	3	
S 1701 0464 Methods of Operations Research	3	
S 1701 0480 Systems Analysis and File Management	3	
S 1701 0481 Operating Systems	3	
S 1701 0484 Fundamentals of Programming Languages	3	
S 1701 0495/6 *Seminar in Mathematical Sciences I, II	3 ea.	
IV. Graduate Courses: May be taken by seniors in order to fulfill elective requirements in lieu of courses from III above.		
S 1701 0580 Advanced Programming	3	
S 1701 0581 Systems Programming	3	
S 1701 0582 Theory of Automata and Formal Languages	3	
S 1701 0583 Computer Algorithms	3	
S 1701 0584 Operating System Design	3	
S 1701 0585 Topics in Computer Science	3	
S 1701 0586 Information Retrieval and System Design	3	

*These courses are offered primarily as independent study in advanced areas of computer science.

Minor in Computer Science

(Arts and Sciences Programs)

Students may earn a minor in computer science by completing an 18-hour program from the following list of courses: (At least 9 hours must be selected from courses numbered above S 1701 0300.)

S 1701 0260, 0261 Introduction to Computer Applications I-II	3 ea.
S 1701 0283, 0284 Foundations of Computer Science I-II	3 ea.
S 1701 0380 Assembler Language Programming	3
S 1701 0383 Data Structures	3
S 1701 0480 Systems Analysis and File Management	3
S 1701 0481 Operating Systems	3
S 1701 0484 Fundamentals of Programming Languages	3

Mathematics

Course Descriptions

S 1701 0101 Introduction to Modern Mathematics I

For students with a major interest in fields other than mathematics and science. Emphasis is on basic concepts rather than on formal manipulative skills. Topics include: sets, logic, finite mathematics, systems of numeration, and properties of sets of numbers. Not for Math-Science majors. 3 s.h.

S 1701 0102 Introduction to Modern Mathematics II

Application of basic concepts to topics in algebra, geometry, statistics, probability, and elementary calculus. Not for Math-Science majors. 3 s.h.
Prerequisite: S 1701 0101 or the equivalent.

S 1701 0103 The Development of Mathematics

The growth and development of mathematics from ancient to modern times; contributions of the great mathematicians. Not for Math-Science majors. 3 s.h.

S 1701 0107 Computers and Society

Information processing in political and social spheres, applications to industry and industrial automation, research in social sciences and humanities; programming for techniques, not proficiency. Not for Math-Science majors. 3 s.h.

S 1701 0108 Computers and Programming

Develops programming competence including the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for Math-Science majors. 3 s.h.

S 1701 0109 Statistics

Introduction to the use and misuse of statistics. Topics include: analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making. 3 s.h.

S 1701 0110 Introduction to Algebra and Analysis

Sets, relations, functions, development of number systems, and algebraic operations. May not be taken for credit by students who have received high school credit for intermediate algebra. Not for Math-Science majors. 3 s.h.

S 1701 0111 Introduction to Calculus

Functions, differentiation, maxima-minima problems and other applications, integration. Not for Math-Science majors. 3 s.h.

Prerequisite: S 1701 0110 Introduction to Algebra and Analysis or the equivalent.

S 1701 0112 Introduction to Linear Algebra

Vectors, matrices, linear functions, linear programming. Not for Math-Science majors. 3 s.h.

Prerequisite: S 1701 0111 Introduction to Calculus or the equivalent.

S 1701 0115 Introductory Mathematical Analysis

Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, and elements of vectors, matrices and determinants. 3 s.h.

S 1701 0116 Calculus A

Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for Math, Chemistry or Physics majors. 4 s.h.

S 1701 0117 Mathematics for the Life Sciences I

Descriptive statistics, counting techniques, probability distributions, biological

models, introduction to hypothesis testing. Applications include: genetics, ecology, biochemistry, experimental design. 3 s.h.

S 1701 0118 Mathematics for the Life Sciences II

Mathematical models; population biology, diversity in populations, population genetics, contingency tables, regression analysis, mathematical ecology, topics in demography, tests of biological models. 3 s.h.

Prerequisite: S 1701 0117 Mathematics for the Life Sciences I.

S 1701 0121 Mathematical Analysis

Logic and sets, real number system, relations and functions, trigonometry and circular functions, binomial theorem, inverse functions, elementary theory of equations and inequalities, complex numbers and analytic plane geometry. 4 s.h.

S 1701 0122 Calculus I

Limits; continuity; derivatives and differentiation; anti-differentiation; maxima, minima, and extreme considerations; differentials and related rates. 4 s.h.

Prerequisite: Four years of high school mathematics or S 1701 0121 Mathematical Analysis.

S 1701 0161 Introduction to Computing

Introduction to electronic computers and computer programming in BASIC language. 1 s.h.

Corequisite: Registration in a calculus course.

S 1701 0210 Statistical Methods

Descriptive statistics, random variables, probability distributions, binomial, Poisson and normal distributions, estimation, hypothesis testing. 3 s.h.

Prerequisite: S 1701 0111 Introduction to Calculus or the equivalent.

S 1701 0221 Calculus II

Riemann integral applications, transcendental functions, techniques of integration, polar coordinates. 4 s.h.

Prerequisite: S 1701 0122 Calculus I or the equivalent.

S 1701 0222 Calculus III

Calculus in solid geometry, partial differentiation, multiple integration, infinite series, differential equations. 4 s.h.

Prerequisite: S 1701 0221 Calculus II or the equivalent.

S 1701 0260 Introduction to Computer Applications I

Emphasis is on the business applications of a modern computer; language COBOL. May not be taken for credit by students who have received credit for S 1701 0283 or S 1701 0461. 3 s.h.

S 1701 0261 Introduction to Computer Applications II

Applications in accounts receivable, payroll and inventory; language COBOL. Card, tape, and disc files. 3 s.h.

Prerequisite: S 1701 0260 Introduction to Computer Applications I or S 1701 0283 Foundations of Computer Science I.

S 1701 0283 Foundations of Computer Science I

Basic theory of digital computers; languages FORTRAN and PL/1. Flowcharting strings, arrays, loops, and files. 3 s.h.

Prerequisite: S 1701 0116 Calculus A or S 1701 0122 Calculus I or the equivalent.

S 1701 0284 Foundations of Computer Science II

Comparative analysis of algorithms, lists, processing strings, processing and simulative languages, and introduction to formal languages. 3 s.h.

Prerequisite: S 1701 0283 Foundations of Computer Science I.

S 1701 0285 Discrete Mathematical Structures

These structures include sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups and groups. Many practical business and scientific problems can be posed and solved by the use of these structures. 3 s.h.

S 1701 0335 Elements of Linear Algebra

Vectors, vector spaces, systems of linear equations, matrices, determinants and linear transformations. 3 s.h.

Prerequisite: S 1701 0116 Calculus A or S 1701 0122 Calculus I, or the equivalent.

S 1701 0340 Probability

Chance and variability, elements of combinatorics, Bayes' Theorem, random variables, binomial, Poisson and normal distributions, applications to statistics.

3 s.h.

Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II, or the equivalent.

S 1701 0350 College Geometry

Study of Euclidean and other geometries from a postulation point of view. 3 s.h.

Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II, or the equivalent.

S 1701 0380 Assembler Language Programming

Computer structures, introduction to assembler language, subroutine linkage, conversions, input/output instruction. 3 s.h.

Prerequisite: S 1701 0261 Introduction to Computer Applications II or S 1701 0284 Foundations of Computer Science II.

S 1701 0381 Advanced Data Processing

Advanced techniques in data processing including: modular programming techniques; debugging language; table handling; subscription and indexing; variable length records and tables; declarations and linkages; report generation; tape and disc file processing; searching, sorting, updating and retrieving from files, sequential, indexed sequential and direct-access file organization. COBOL Language. 3 s.h.

Prerequisite: S 1701 0261 Introduction to Computer Applications II.

S 1701 0383 Data Structures

Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures. 3 s.h.

Prerequisite: S 1701 0261 Introduction to Computer Applications II or S 1701 0284 Foundations of Computer Science II.

S 1701 0403 Techniques and Applications of Statistics

Techniques for the social and behavioral sciences including estimation, tests of hypotheses, nonparametric statistics, regression and correlation. May not be taken for credit by mathematics majors. 3 s.h.

Prerequisite: Permission of the instructor.

S 1701 0404 Techniques and Applications of Computer Science

An intensive introductory course in computing designed for students in various disciplines using the FORTRAN language. The emphasis will be placed on the problem solving approach and techniques. 3 s.h.

Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II, or permission of the instructor.

S 1701 0420 Differential Equations

Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions. 3 s.h.

Prerequisite: S 1701 0222 Calculus III or the equivalent.

S 1701 0423 Introduction to Complex Variables

This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include; rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann Equations, and contour integrals. 3 s.h.
Prerequisite: S 1701 0222 Calculus III.

S 1701 0425 Advanced Calculus I

Archimedean principle, density of the rationals, intermediate value theorem, Heine-Borel theorem, derivative, mean value theorem, Riemann integral. 3 s.h.
Prerequisite: S 1701 0222 Calculus III.

S 1701 0426 Advanced Calculus II

Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, Divergence theorem, implicit function theorem, inverse function theorem; infinite series, uniform convergence. 3 s.h.
Prerequisite: S 1701 0425 Advanced Calculus I.

S 1701 0428 Introduction to Topology

Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties; topological generalizations of basic continuity theorems of advanced calculus. 3 s.h.
Prerequisite: S 1701 0425 Advanced Calculus I.

S 1701 0431 Foundations of Modern Algebra

Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples. 3 s.h.
Prerequisite: S 1701 0335 Elements of Linear Algebra.

S 1701 0433 Theory of Numbers

Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions. 3 s.h.
Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II.

S 1701 0436 Elements of Logic

Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem. 3 s.h.
Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II.

S 1701 0440 Statistical Methods for Research

Applications of statistical methods: estimation, hypothesis testing, inference enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design. 3 s.h.
Prerequisite: S 1701 0340 Probability.

S 1701 0443 Statistics: Theory and Application

Develops statistical methods from probability theory. Topics: discrete and continuous probability distributions, estimation, inference and hypothesis testing. 3 s.h.
Prerequisite: S 1701 0340 Probability.

S 1701 0450 Foundations of Geometry

Groups of transformations, the Erlanger Program and an introduction to projective geometry. 3 s.h.
Prerequisite: S 1701 0335 Elements of Linear Algebra or equivalent.

S 1701 0460 Introduction to Applied Mathematics

Solutions to problems in the real world: vectors, matrices, series, periodic motion theory of relativity and Fourier series. 3 s.h.
Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III.

S 1701 0463 Introduction to Numerical Analysis

Finite differences, approximation theory, linear and non-linear equations, error analysis. 3 s.h.

Prerequisite: S 1701 0335 Elements of Linear Algebra and S 1701 0461 Computer Science I or equivalent.

S 1701 0464 Applied Methods of Operations Research

Linear programming, resource allocation, routing, scheduling, inventory models, replacement, queuing theory, with an introduction to network analysis, PERT, dynamic programming, Monte Carlo techniques, or decision theory if time permits. 3 s.h.

Prerequisites: S 1701 0335 Elements of Linear Algebra, S 1701 0340 Probability or equivalent.

S 1701 0465 Linear Programming and Game Theory

Two-person Zero sum games, the normal form, mixed strategies, the minimax theorem, symmetric games, solutions of linear programs, the classical vitamin problem, and the simplex algorithm. 3 s.h.

Prerequisite: S 1701 0340 Probability and S 1701 0335 Elements of Linear Algebra.

S 1701 0470 Teaching of Mathematics

Selection, organization and presentation of elementary and secondary mathematics: classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning. 3 s.h.

Prerequisite: Admission to teacher education program.

S 1701 0471 Selected Topics in Modern Mathematics

Professionalized view of junior and senior high school mathematics topics: functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming. 3 s.h.

Prerequisite: Admission to teacher education program.

S 1701 0472 Contemporary Program in Secondary Mathematics

Contemporary curricula in elementary and secondary mathematics; programs currently being implemented; curriculum study recommendations. 3 s.h.

Prerequisite: S 1701 0470 Teaching of Mathematics or concurrent registration.

S 1701 0475 History of Mathematics

Histories of geometry, number theory, algebra, calculus and infinite processes. 3 s.h.

Prerequisite: S 1701 0221 Calculus II.

S 1701 0480 Systems Analysis and File Management

A major project includes forms design, sequential files, merge, sort, and editing programs. 3 s.h.

Prerequisite: S 1701 0261 Introduction to Computer Applications II.

S 1701 0481 Operating Systems

Systems architecture, DOS, OS Systems, multi-programming, virtual storage. 3 s.h.

Prerequisite: S 1701 0261 Introduction to Computer Applications II or S 1701 0284 Foundations of Computer Science II.

S 1701 0484 Fundamentals of Programming Languages

Syntax and semantics of programming languages. Principles of compilers and compiler construction, including object code generation. 3 s.h.

Prerequisite: S 1701 0383 Data Structures.

S 1701 0495 and 0496 Seminar in Mathematics I and II

Students may do independent work in advanced topics under the supervision of an instructor. 3 s.h. ea.

Prerequisite: Approval of the department chairman and the supervising instructor.

DEPARTMENT OF PHYSICS AND GEOSCIENCE

Professor: S. Kowalski

Associate Professors: Hamilton, L. Kowalski, Minor, Ramsdell, West

Assistant Professors: Hodson, Chairman; Derengowski-Stein, Filas, Hamdan, Kelland, Mak, Thiruvathukal

Montclair offers Physics programs and Geoscience programs providing: 1. Liberal Arts Degrees in Geoscience and in Physics; 2. Minors for majors in other fields; 3. Teacher Preparation; 4. Basic courses for those desiring transfer to engineering or other fields at another institution. The programs give the student a background in related sciences and mathematics, as well as a depth of courses in the major.

Part of the Montclair tradition is that a professor supervises his classes while they are in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors on course material, for guidance in planning a program of studies, or just "to exchange ideas."

Students majoring in mathematics or other sciences, especially those in applied fields, will find a minor in physics or geoscience advantageous. The minor course offering will complement the student's knowledge, preparing him/her for interdisciplinary work in teaching, research, industry, and graduate study. MSC provides a substantial, well-rounded preparation for students planning to enter graduate school. Our program enables students to obtain a balanced background of both experimental and theoretical material. Our graduates have been accepted at many graduate schools, including those of the larger universities in the nation.

Freshman courses offered for majors assume exposure to biology, chemistry and physics as well as three years of preparatory mathematics in high school. A student majoring in physics should have four years of high school preparatory mathematics.

Physics Major

I. Requirements	semester hours
T 1902 0101, 0102 General Physics I and II	4 ea.
T 1902 0210 Mechanics	4
T 1902 0240 Electricity and Magnetism	4
T 1902 0350 Optics	4
T 1902 0460 Modern Physics	4

Required Collateral Courses

R 1905 0120, 0121 General Chemistry I and II	4 ea.
--	-------

Select 4 courses from the list below:

S 1701 0115 Introductory Mathematical Analysis	3
S 1701 0122, 0221, 0222 Calculus I, II, III	4 ea.
S 1701 0420 Differential Equations	3 ea.

Recommended in addition to the above:

S 1701 0283 Foundations of Computer Science I	3
---	---

II. Electives: With the advice of the departmental academic advisor the student selects at least 13 semester hours from:

T 1902 0242 Circuit Theory	3
T 1902 0245 Electronics	3
T 1902 0280 Astronomy	3
T 1902 0310 Advanced Mechanics	3
T 1902 0320 Thermodynamics	3
T 1902 0340 Advanced Electricity and Magnetism	3
T 1902 0377 Mathematical Physics	3
T 1902 0410 Fluid Mechanics	3
T 1902 0462 Nuclear Physics	3
T 1902 0464 Quantum Mechanics	3

T 1902 0470	Solid State Physics	3
T 1902 0490	Literature Research in Physics	2
T 1902 0495	Laboratory Research in Physics	1-4
T 1914 0112	Physical Geology	4
	REQUIRED TOTAL	37

Minor in Physics

(Arts and Sciences Program)

Required Courses

T 1902 0101, 0102	General Physics I and II	4 ea.
T 1902 0210	Mechanics	4
T 1902 0240	Electricity and Magnetism	4
	Physics Elective	3

Second Teaching Field in Physical Science

There is no New Jersey certification in the field of physics alone. Students majoring in a non-science field who desire certification in physics may take the physical science program. In addition to the certification program in the major field, the students must take the following program:

T 1902 0101, 0102	General Physics I and II	4 ea.
	Physics Elective	4
R 1905 0120, 0121	General Chemistry I and II	4 ea.
	Chemistry Elective	5
	REQUIRED TOTAL	25

Geoscience Major

I. Requirements		semester hours
T 1914 0112	Physical Geology	4
T 1914 0114	Historical Geology	4
T 1914 0433	Invertebrate Paleobiology	4
T 1914 0434	Stratigraphy	4
T 1914 0443	Mineralogy	4
T 1914 0444	Petrology	4
II. Collateral Requirements		semester hours
R 1905 0120, 0121	General Chemistry I and II	4 ea.
T 1902 0103, 0104	College Physics I and II	4 ea.
Select 2 courses in mathematics from the list of 4 below:		
S 1701 0115	Introductory Mathematical Analysis	3
S 1701 0116	Calculus A	4
S 1701 0122	Calculus I	4
S 1701 0221	Calculus II	4
Recommended in addition to the above:		
S 1701 0283	Foundations of Computer Science I	3
III. Elective Courses*: With the advice of the departmental academic advisor, the student selects at least 14 semester hours from:		
T 1914 0210	Economic Geology	3
T 1914 0225	Fundamentals of Environmental Geoscience	3
T 1914 0250	Map Interpretation and Cartography	3
T 1914 0251	Aerial Photograph Interpretation	3
T 1914 0254	Geomorphology and Climatology of North America	3
T 1914 0320	Contemporary Problems in Conservation of Natural Resources	3
T 1914 0355	World Regional Geomorphology	3
T 1914 0356	World Regional Climatology	3
T 1914 0358	Glacial Geology	3
T 1914 0360	Oceanography	3

T 1914 0410	Geology of New Jersey	3
T 1914 0447	Mineralogy of Gem Materials	4
T 1914 0457	Meteorology	4
T 1914 0460	Introduction to Physical Oceanography	4
T 1914 0464	Geology of the Oceans	4
T 1914 0465	Coastal Marine Geology	4
T 1914 0466	Field Methods in Oceanography and Marine Biology	2
T 1914 0467	Dynamic Beach Processes	2
T 1914 0469	Independent Study in the Marine Sciences	1-4
T 1914 0472	Structural Geology	4
T 1914 0480	Field Studies in Geoscience	4
T 1914 0484	Geology Field Trip	1
T 1914 0490	Seminar in Geoscience	2
T 1914 0495	Independent Study in Geoscience	1-4
	REQUIRED TOTAL	14

*Not all elective courses are offered each year.

Minor in Geoscience

(Arts and Sciences Program)

Required Courses

T 1914 0112	Physical Geology	4
T 1914 0114	Historical Geology	4
One of the following two sequences:		
T 1914 0433	Invertebrate Paleobiology	4
T 1914 0434	Stratigraphy	4
or		
T 1914 0443	Mineralogy	4
T 1914 0444	Petrology	4
	Geoscience Elective	3
	REQUIRED TOTAL	19

Teacher Education

Students interested in teacher education should follow the Professional Sequence. In addition, Geoscience majors must complete these courses in related science fields to be eligible for a State of New Jersey Science K-12 Certificate.

Requirements:

T 1902 0103, 0104	College Physics I and II	4 ea.
-------------------	------------------------------------	-------

And select one of the following:

Q 0401 0105	College Biology	4
Q 0401 0120	Plant Form and Function	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0140	Biology of the Cell	3

For Physics-teaching majors, the following additional course in a related science field is needed for the comprehensive Science K-12 Certificate.

Select one of the following

Q 0401 0105	College Biology	semester hours 4
Q 0401 0120	Plant Form and Function	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0140	Biology of the Cell	3

REQUIRED TOTAL	14-16
----------------	-------

Second Teaching Field in Geoscience

T 1914 0112	Physical Geology	4
T 1914 0114	Historical Geology	4
T 1914 0457	Meteorology	4
T 1902 0280	Astronomy	4

T 1914 0360	Oceanography.....	3
At least 5 s.h. from one of the following:		
T 1914 0254	Geomorphology and Climatology of North America.....	3
T 1914 0358	Glacial Geology.....	3
T 1914 0410	Geology of New Jersey.....	3
T 1914 0433	Invertebrate Paleobiology	4
T 1914 0443	Mineralogy.....	4
	REQUIRED TOTAL	24

Geoscience Course Descriptions

T 1914 0112 Physical Geology

Materials of the earth; land forms and structures; the processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had Principles of Geology. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

T 1914 0114 Historical Geology

Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
Prerequisite: T 1914 0112 or the permission of the instructor.

T 1914 0210 Economic Geology

Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year) (3 hrs. lecture) 3 s.h.
Prerequisite: T 1914 0112 or T 4902 0108 or permission of the instructor.

T 1914 0225 Fundamentals of Environmental Geoscience

The study of the relationships between man and his physical habitat. Earth resources, processes and systems and the engineering properties of natural materials insofar as they are important to, effect, or are effected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas. (Not offered every year) (3 hrs. lecture) 3 s.h.
Prerequisite: T 4902 0107 or T 4902 0108 or T 1914 0112.

T 1914 0231 Fossils of New Jersey

The collection, preparation, identification and significance of New Jersey fossils. Basic principles of classification, morphology, evolution, paleoecology and stratigraphic distribution of fossil organisms. Required field trips. Not open to geoscience majors or to those who have taken Invertebrate Paleobiology. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

T 1914 0250 Map Interpretation and Cartography

Basic procedures in map construction from obtaining and evaluating source information through map design, drafting techniques, and preparation suitable for inclusion in reports are developed through drafting exercises and lectures. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

T 1914 0251 Aerial Photograph Interpretation

Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

T 1914 0252 Hydrology

Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic

processes. (Also listed as 4 2206 0252 Hydrology)	3 s.h.
T 1914 0254 Geomorphology and Climatology of North America	
Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent. (2 hrs. lecture, 2 hrs. laboratory)	3 s.h.
T 1914 0258 Glacial Geology	
A study of the materials, processes and effects of glaciation. Field trips will be taken to areas where glacial features are well shown. (Not offered every year) (3 hrs. lecture)	
Prerequisite: T 4902 0107 or T 4902 0108 or T 1914 0112.	3 s.h.
T 1914 0260 Introduction to the Marine Sciences	
A field-oriented course covering the principal disciplines in the marine sciences; the student evaluates his/her interest in the marine science world. Also offered at the site of the N.J. Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory)	4 s.h.
T 1914 0320 Contemporary Problems in Conservation of Natural Resources	
Designed to focus attention on specific environmental problem areas or utilization of resources through assigned readings which provide background door for open class discussion. (3 hrs. lecture)	3 s.h.
Prerequisite: T 1914 0220 or permission of instructor.	
T 1914 0347 Mineralogy of Gem Materials	
Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials; the cutting and polishing of gem materials. Required field trips. (2 hrs. lecture, 2 hrs. laboratory)	3 s.h.
Prerequisite: An introductory course in Geoscience.	
T 1914 0352 Fluvial Geography	
A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyses the morphology of streams and stream channels. The course is quantitative and stresses processes. (also listed as 2206 0352 Fluvial Geography)	3 s.h.
Prerequisite: T 4902 0107, 4 2206 0100 Principles of Geography or permission of the instructor.	
T 1914 0355 World Regional Geomorphology	
Distribution and geomorphic characteristics of major landforms are studied as to origin, stage of geologic development and interrelationship. (Not offered every year) (3 hrs. lecture)	3 s.h.
Prerequisite: An introductory course in Geoscience or permission of the instructor.	
T 1914 0356 World Regional Climatology	
Distribution, characteristics and causes of major world climates as related to the controls of climate. Climatic anomalies and paleo-climatic changes. (Not offered every year) (3 hrs. lecture)	3 s.h.
Prerequisite: T 4902 0107 or T 1914 0457 or permission of the instructor.	
T 1914 0360 Oceanography	
Physical and chemical properties of sea water; oceanic circulation; waves and tides; estuarine and shoreline processes. (3 hrs. lecture)	3 s.h.
Prerequisite: Advanced standing in Physical or Biological Sciences or permission of the instructor.	
T 1914 0410 Geology of New Jersey	
The physical features of New Jersey and their origin; geologic history; stratigraph	

paleobiology, mineralogy; structural geology; economic geology. Required field trips. (3 hrs lecture) 3 s.h.
 Prerequisite: T 1914 0112 or T 4902 0108 or the permission of the instructor.

T 1914 0432 Micropaleobiology

Taxonomic, morphologic, paleoecologic and stratigraphic consideration of common microfossils. Required field trips. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: T 1914 0114 and Q 0401 0130 Invertebrate Zoology or permission of the instructor.

T 1914 0433 Invertebrate Paleobiology

Invertebrate fossils, their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips. (3 hrs. lecture; 2 hrs. laboratory) 4 s.h.

Prerequisite: T 1914 0114, Q 0401 0130 Invertebrate Zoology or the permission of the instructor.

T 1914 0434 Stratigraphy

Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: T 1914 0433 or permission of the instructor.

T 1914 0437 Sedimentology

Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year) (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: T 1914 0112 or the permission of the instructor and at least 8 other credits in geology.

T 1914 0443 Mineralogy

Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: T 1914 0112 and R 1905 0121 General Chemistry II.

T 1914 0444 Petrology

Description, identification, classification, origin and occurrence of sedimentary, gneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: T 1914 0443 or the permission of the instructor.

T 1914 0452 Geohydrology

The study of ground-water with particular emphasis given to its mode of migration, chemistry and relation to the geographic environment. Particular attention is given to Darcy's Law, soil porosity, soil permeability and the ability to withdraw water for human consumption. Water pollutants and salt water incursions are investigated. Spatial distributions are analyzed and the processes examined. 3 s.h.
 Prerequisite: T 1914 0252 or permission of the instructor.

1914 0457 Meteorology

The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.
 Prerequisite: An introductory course in Geoscience.

1914 0460 Introduction to Physical Oceanography

Physical processes in the ocean. Geophysical description of the earth. Forces acting in the marine environment. Heat, water and salt budgets. Waves and tides. Oceanic

and estuarine circulation. Field work: oceanographic instrumentation, methods of physical oceanography. Also offered at the site of the N.J. Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: One year of College Physics, Calculus (Integral & Differential).

T 1914 0465 Coastal Marine Geology

The geologic processes concerned with the supra-, inter- and sub-tidal areas of the near shore environment. Field studies emphasize dynamics of erosion and deposition as well as general sedimentation associated with the modification of barrier beaches and other land forms of the New Jersey shoreline. Also offered at the site of the N.J. Marine Sciences Consortium. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Geology major sequence including T 1914 0437 or permission of the instructor.

T 1914 0466 Field Methods in Oceanography and Marine Biology

The applications and techniques of marine samplings; the nature and role of various pieces of equipment. Field experience at the N.J. Marine Sciences Consortium field station. (1 hour lecture or 2 hours laboratory) 1 s.h.

Prerequisite: Senior standing in science.

T 1914 0467 Dynamic Beach Processes

The processes and forces involved in material transport within the beach zone. Also offered at the site of the N.J. Marine Sciences Consortium. (1 hr. lecture, 2 hrs. laboratory) 2 s.h.

Prerequisite: T 1914 0437 and T 1914 0360 or the permission of the instructor.

T 1914 0468 Tidal Marsh Sedimentation

Processes involved in sediment transport and deposition within the marsh system. Also offered at site of N.J. Marine Sciences Consortium. (1 hr. lecture, 2 hrs. laboratory)

Prerequisite: Advanced standing in Geoscience, including T 1914 0437. 2 s.h.

T 1914 0469 Independent Study in the Marine Sciences

Independent research projects selected under the guidance of a professor. Open only to advanced students who have indicated a potential for original thinking. Also offered at the site of the N.J. Marine Sciences Consortium. 1-4 s.h.

Prerequisite: Courses in any of the Marine Sciences and permission of the instructor

T 1914 0472 Structural Geology

Recognition and interpretation of primary and tectonic rock structures; laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: Geoscience major sequence.

T 1914 0480 Field Studies in Geoscience

Use of geologic, meteorologic and oceanographic instruments in field investigations; interpretation of observations and writing a field report. Required field trips. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: Geoscience major sequence.

T 1914 0484 Geology Field Trip

A five-day to one-week trip through areas of geologic significance. A geoscience major is expected to participate in at least two of the trips. Field trip report and collection required. Expenses shared by the participants. 1 s.h.

Prerequisite: Geoscience major sequence or permission of the department.

T 1914 0490 Seminar in Geoscience

Student field, laboratory and library investigation of a problem in the area of his/her interest in Geoscience; results presented in oral and written form. Class discussion

of the individual papers and of other pertinent topics of current interest in Geoscience. (Not offered every year) 2 s.h.

Prerequisite: Geoscience major sequence or permission of the instructor.

T 1914 0495 Independent Study in Geoscience

An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by sci eduled individual conferences and reports. (Offered on demand) 1-4 s.h.

Prerequisite: Geoscience major sequence or permission of the instructor.

Physics

Course Descriptions

T 1902 0101 and 0102 General Physics I and II

Calculus-based courses (0101): a study of kinematics, dynamics, through energy and linear momentum, rotation, harmonic motion and heat; second semester (0102): mechanical vibrations, sound, optics, electricity and magnetism. Lecture-demonstrations, problem solving sessions and laboratory experiences. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h. ea.

Prerequisite: (0101) S 1701 0115 Mathematical Analysis or concurrent; (0102) S 1701 0116 Calculus A or S 1701 0122 Calculus I or concurrent.

T 1902 0103 and 0104 College Physics I and II

Two-semester non-calculus course for non-physical science majors; laboratory experiences; mechanics, heat, geometric optics, electricity and magnetism. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h. ea.

T 1902 0107 Elementary Physics for the Home

A laboratory course developing basic principles in the construction, operation and performance of home instruments and utensils. Mechanical, electrical and optical properties of appliances. Plumbing, insulation and energy conservation. 3 s.h.

T 1902 0210 Mechanics

Classical mechanics: kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

Prerequisites: T 1902 0101, T 1902 0102, S 1701 0215 Calculus B or S 1701 0221 Calculus II or taken concurrently.

T 1902 0240 Electricity and Magnetism

Basic principles of electromagnetism: Coulomb's Law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

Prerequisite: T 1902 0102, S 1701 0216 Calculus C or S 1701 0222 Calculus III or taken concurrently.

T 1902 0242 Circuit Theory

Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, Fourier analysis of different inputs and outputs, and transmission lines. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: S 1701 0215 Calculus B or S 1701 0221 Calculus II; T 1902 0102, T 1902 0210 or S 1701 0420 Differential Equations.

T 1902 0245 Electronics

Measuring instruments, transistors, amplifiers, generators and logic circuits are used to explain principles of electronics. (Not offered every year) (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: T 1902 0240.

T 1902 0280 Astronomy

Application of physical laws to the earth as a planet; nature of the other planets; orbital motion and space flight; origin of the solar system; the birth, life, and death of a star; galactic structure and cosmology. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h. Prerequisite: 1 year introductory Physics, S 1701 0115 Introductory Mathematical Analysis.

T 1902 0310 Advanced Mechanics

Classical mechanics; transformations, oscillators, generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. (Offered alternate years) (3 hrs. lecture) 3 s.h.

Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III, T 1902 0210 or permission of the instructor. S 1701 0420 Differential Equations is recommended.

T 1902 0320 Thermodynamics

Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics, (Offered alternate years) (3 hrs. lecture) 3 s.h.

Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III; T 1902 0210 or permission of the instructor.

T 1902 0340 Advanced Electricity and Magnetism

Dielectric materials; image calculations; Laplace's equation; magnetic materials and flux; A.C. networks; non-sinusoidal AC, transients and pulses; electromagnetic radiation. (Offered alternate years) (3 hrs. lecture) 3 s.h.

Prerequisite: S 1701 0315 Applied Differential Equations, or S 1701 0420 Differential Equations, or permission of the instructor.

T 1902 0350 Optics

Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III, T 1902 0240.

T 1902 0377 Mathematical Physics

Vector analysis; complex variables; ordinary and partial differential equations, matrices. (Not offered every year) (3 hrs. lecture) 3 s.h.

Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III and 2 years of Physics.

T 1902 0410 Fluid Mechanics

The study of the mechanics of the continuous media. Topics will include: fluid statics, basic laws governing fluid systems and control volumes, viscous flows, dimensional analysis and similitude, and potential flow. 3 s.h.

Prerequisite: T 1902 0210 and S 1701 0216 Calculus C or S 1701 0222 Calculus III.

T 1902 0460 Modern Physics

Special relativity, kinetic theory of matter; quantization of electricity, light and energy, nuclear atom, elementary quantum mechanics and topics on solid state. (Offered alternate years) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

Prerequisite: T 1902 0210, T 1902 0240, S 1701 0216 Calculus C or S 1701 0222 Calculus III.

T 1902 0462 Nuclear Physics

Nuclear radiation, radioactive decay, detectors; nuclear spectroscopy and reactions;

theories and models; fission, fusion, reactors and application of radio-isotopes.
 (Offered alternate years) (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.
 Prerequisite: T 1902 0210, T 1902 0240, S 1701 0216 Calculus C or S 1701 0222 Calculus III.

T 1902 0464 Quantum Mechanics

Shroedinger's Wave Equation, its application and interpretation: Pauli exclusion principle and spectra. (Offered alternate years) (3 hrs. lecture) 3 s.h.
 Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III, T 1902 0460.

T 1902 0470 Solid State Physics

Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year) (3 hrs. lecture) 3 s.h.
 Prerequisite: S 1701 0216 Calculus C or S 1701 0222 Calculus III, T 1902 0460.

T 1902 0490 Literature Research in Physics

Student considers topics in physics and gains facility in literature research techniques; topics in pure physics or related to physics education. Students intending to enroll in Laboratory Research in Physics should use T 1902 0490 to provide the literature research related to his/her laboratory problem. (Not offered every year) (2 hrs. lecture) 2 s.h.
 Prerequisite: At least 16 credit hours of Physics beyond General Physics.

T 1902 0495 Laboratory Research in Physics

Solution of a laboratory problem; research in pure physics or in physics education; written report required. (Not offered every year) 1-4 s.h.
 Prerequisite: At least 16 hours of Physics beyond General Physics.

Interdisciplinary Science Courses

T 4902 0100 Concepts in Science

For non-science majors; modern science, understanding its methods and philosophy; the understanding of their nature rather than mathematical description of the laws. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

T 4902 0101 and 0102 Man and Technology I and II

Inter-disciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision-making and computer logic, modeling, stability, feedback, and control techniques for the man-made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h. ea.

4902 0103 Technology for the Layman

Simplified description of man-made devices; common technological terms and physical principles behind heaters, airconditioners, airplanes, telephone, radar, nuclear reactors, etc. (3 hrs. lecture) 3 s.h.

4902 0104 History of Science

the historical and philosophical development of science traced from the ancient Egyptians to the present. (3 hrs. lecture) 3 s.h.

4902 0105 Acoustics

the study of sound for science and non-science majors; applications to music and speech. The nature of sound, wave motion, standing waves and resonance, the ear and hearing, scales and tuning. Musical instruments and the voice, architectural acoustics, and electronic sound recording and reproduction. (1 hr. lecture, 2 hrs. laboratory) 2 s.h.

T 4902 0106 Science and Society

Non-mathematical course; some of the principles of science, their relationship to society as solutions to and causes of problems. (3 hrs. lecture) 3 s.h.

T 4902 0107 Fundamentals of Geoscience

An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective. (3 hrs. lecture) 3 s.h.

T 4902 0108 Principles of Geology

Geologic materials and processes. Origin and development of the earth throughout geologic time; Evolution of life as interpreted through the study of fossils. Not open to Geoscience majors or to those who have taken Physical Geology. (3 hrs. lecture) 3 s.h.

T 4902 0109 Earth in Space and Time

The Earth: its interactions with sun, moon and planets; its origin; its major geologic features and the geologic events of its past, present, and possible future. (3 hrs. lecture) 3 s.h.

T 4902 0120 Introduction to Photography

Laboratory and field work, lectures and demonstrations; the construction of cameras, common films and papers, fundamental chemistry and photography, development and printing. A student needs at least one camera. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

T 4902 0180 Descriptive Astronomy

For the general student. The tools of the astronomer; the nature of the solar system motions and laws relative to systems; the nature, classification and magnitudes of stars; and cosmogony, a historical view. (3 hrs. lecture) 3 s.h.

T 4902 0199 The Science in Science Fiction

An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include: astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics. (3 hrs. lecture) 3 s.h.

T 4902 0220 Photography

Laboratory and field work, lectures and demonstrations; nature of light; lenses and optical systems of cameras, enlargers; chemicals and principles used in development and printing of films and papers, and special techniques. (2 hrs. lecture, 2 hrs. laboratory) 3 s.h.

Prerequisite: An introductory course in Photography or permission of instructor.

T 4902 0221 Conservation of Natural Resources

The imbalance between natural resources and world population distribution and growth. Required field trip. (3 hrs. lecture) 3 s.h.

T 4902 0235 Dinosaurs, Their Life and Times

The origin, evolution, paleoecology and extinction of the dinosaurs. Required field trip. (3 hrs. lecture) 3 s.h.

T 4902 0262 General Oceanography

The physical, chemical, geological and biological aspects of the oceans and the interrelationship. Required field trips. For non-science majors. (3 hrs. lecture) 3 s.h.

T 4902 0322 Consumer Science

Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products. Not open to freshmen and sophomores. (2 hrs. lecture, 2 hrs. laboratory)

3 s.h.

SCIENCE EDUCATION COURSES**Q 0834 0401 Teaching of Science in Secondary Schools**

Educational objectives of science in the public schools; science instruction programs for secondary schools; instruction and enrichment materials; evaluation in science classes; special methods of teaching applicable to science instruction. (3 hrs. lecture)

3 s.h.

Q 0834 0405 The Construction and Use of Molecular Models

Composition, shapes and relative sizes of some common molecules. Construction of scale models.

2 s.h.

Prerequisite: One year of college chemistry.

Q 0834 0409 Senior High School Physical Science Demonstrations

Demonstrations and experiments designed for work in high school chemistry, physics, and applied physical science courses. (Not offered every year) (2 hrs. lecture)

2 s.h.

Q 0834 0410 Junior High School Science Demonstrations

Demonstrations and experimental instruction appropriate to grades seven, eight and nine. (4 hrs. lecture)

4 s.h.

Q 0834 0460 Marine Science Education

Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the N.J. Marine Sciences Consortium.

2 s.h.

Prerequisite: Undergraduate science major sequence including a 400-level oceanography course and a science methods course, or permission of instructor.



SCHOOL OF PROFESSIONAL ARTS AND SCIENCES

Houston G. Elam, Ph.D., Dean
Michael A. Puglisi, M.B.A., Associate Dean

Academic Advisors: Gabriella DiVirgilio, M.A., Larry Rickards, M.A.,
Gladys Tate, M.A., William Welsch, M.A.

The School of Professional Arts and Sciences is responsible for instruction, research and administration in a number of professional activities and services both on- and off-campus.

A wide variety of professional and teacher training programs are offered through the following Departments of the School:

Department	Program
Administrative Sciences	Business Administration Accounting Finance Management & Organizational Behavior Marketing Quantitative Methods General Business
Business & Distributive Education	Accounting Education Distributive Education Secretarial Practice Education
Health Professions	Allied Health Services Health Education
Home Economics	Consumer Affairs Family & Child Studies Food Services Management Foods & Nutrition Home Economics Education
Industrial Education & Technology	Industrial Education *Vocational-Technical Teacher Education
Physical Education	Physical Education Physical Education & Health
Recreation Professions	Commercial Recreation Community & Municipal Recreation Recreation Therapy Outdoor Recreation General Recreation

These programs lead to professional careers in industry, non-profit institutions, governmental agencies and services, or to the teaching proficiency and certification for training others in these areas.

Although the School is the largest unit of the College, it maintains personalized relationships through strong student-faculty involvement through departmental and School-wide organizations.

The School coordinates several important programs and activities not located in traditional academic departments. The most significant of these is the New Jersey School of Conservation, a major environment and outdoor education center, which is administered by the College through the School of Professional Arts and Sciences.

The School also houses the Panzer School Council, which coordinates curriculum development and the use of facilities for the Departments of Health Professions, Physical Education, and the Recreation Professions Program.

*Non-degree program leading to certification only.

DEPARTMENT OF ADMINISTRATIVE SCIENCES

Professors: Kelly, Chairman; Elam, Greco, Mininberg, Namias, Turner
Associate Professors: Chen, DiPietro, Kallman, Mirchin, Turner, Waters,

Assistant Professors: Amiel, Chaney, Cohen, Douma, Friedman,

Gallagher, Gluck, Hessel, McShea, Miller, Min, Oppenheim,

Papoulias, Primiano, Schancupp, Shah, Shapiro, Simonson,

Stein, Thompson

Instructors: Crowley, Goldstein, Smith

A major in Business Administration is offered through the Department, along with a wide variety of courses and services to students in other departments of the College.

Curricula are intended to provide:

1. the managerial and technical business skills essential to a variety of job opportunities.
2. analytical skills for solving business and related problems.
3. decision-making skills necessary to a strong executive.
4. administrative knowledge required in many professional functions.
5. the capacity to understand and adjust to current and future business conditions, systems and relationships.
6. the experience and confidence necessary for success in the competitive business environment.

Students expecting to major within the Department should schedule mathematics, economics and other general education courses during their first years, in preparation for a strong concentration in professional courses in the latter years of college.

The major in Business Administration offers several concentration areas: Professional & Managerial Accounting, Finance, Organization & Management, Marketing, Quantitative Methods and General Business. Each provides a broad understanding of business functions and procedures through a common core of courses and an in-depth concentration curriculum.

Accounting

The concentrations in Accounting prepare students for industrial, governmental or institutional positions. Industrial accountants design and supervise financial and managerial accounting systems for entire firms, including preparation and analysis of accounting reports. Governmental or institutional accountants perform similar services at various levels of those agencies and organizations.

Certified Public Accountants (CPAs) render independent audits, accounting, tax and managerial advisory services to various clients, primarily in the private sector. Students wishing to sit for the CPA examination in New Jersey and New York need 24 credits in accounting including coverage of cost accounting, tax accounting and auditing, as well as six credits in finance and/or money and six credits in business law.

Finance

This area of concentration provides the student with a professional background in both corporation finance and investments. The requirements for concentration are arranged to allow the student to specialize in one of the above two if he/she so desires. The courses are planned on a sequential basis and the student desirous of concentration in this existing field is advised to plan well ahead and complete early the quantitative and economics courses so as to make the best use of the field. Most of the courses offered by the Economics department can be taken as electives to improve the understanding and mastery of the field.

Management and Organizational Behavior

This concentration provides professional education in large organization theory and behavior, the management of human resources, operations and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

Marketing

The Marketing concentration provides knowledge of corporate marketing policies and procedures, persuasion and other communications, product development and display, sales organization and management, retailing and distribution systems and consumer and marketing research. It is appropriate for students wishing to enter into the sales, advertising, product management, retailing, public relations and consumer research areas of the economy.

Office Systems Administration

(Please see Business and Distributive Education Department: Page 199.)

Quantitative Analysis

This area provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with increasingly important computer applications, are handled in depth to permit a student to become comfortable in the handling of statistics, computer science, operations research and similar quantitative subjects.

General Business

The student who does not select a specified concentration, but desires breadth in preparation for a business career, augments the required business core with a selection of twelve credits from the professional concentrations.

I. Requirements

	semester hours
U 0502 0201 Fundamentals of Accounting I	3
U 0502 0202 Fundamentals of Accounting II	3
U 0501 0231 The Management Process	3
U 0509 0241 The Marketing Process	3
U 0506 0261 Legal Environment of Business I	3
U 0503 0271, 0272 Business Statistics I, II.	3 ea.
U 0501 0315 Organizational Behavior	3
U 0504 0321 Fundamentals of Finance	3
U 0501 0439 Business Policy	3
U 0503 0463 Admin. Research & Analysis	3
U 0503 0273 Information Processing	3

The following collateral courses may be applied to General Education requirements: 1701 0111, 0112; 2204 0101, 0102.

II. Concentrations and electives as below.

Concentration in Accounting

Managerial Accounting

U 0502 0301, 0302 Intermediate Accounting I, II.	3 ea.
U 0502 0303 Auditing Theory and Practice	3
U 0502 0307 Cost Accounting and Control I	3
Two of the following electives:	
U 0502 0308 Cost Accounting and Control II.	3
U 0503 0371 Management Information Systems	3
U 0502 0401 Advanced Accounting	3
U 0502 0403 Tax Accounting.	3
U 0502 0405 Profit Planning and Control.	3

U 0502 0407 Accounting Systems and Data Processing	3
--	---

Professional Accounting

U 0502 0301, 0302 Intermediate Accounting I, II	3 ea.
U 0502 0303 Auditing Theory and Practice	3
U 0502 0307 Cost Accounting and Control I	3
U 0502 0403 Tax Accounting	3
One of the following electives:	
U 0502 0308 Cost Accounting and Control II	3
U 0503 0371 Management Information Systems	3
U 0502 0401 Advanced Accounting	3
U 0502 0404 Current Tax Problems	3

Concentration in Finance

U 0504 0322 Capital Budgeting Management	3
U 0504 0326 Investment Principles	3
U 0504 0327 International Financial Management	3
Two of the following electives:	
U 0504 0423 Capital Structure Management	3
U 0504 0424 Capital Management	3
U 0504 0425 Working Capital Management	3
U 0504 0427 Security Analysis	3
U 0504 0428 Portfolio Theory & Its Application	3

Concentration in Management and Organizational Behavior

U 0501 0316 Human Resource Management	3
Two of the following electives:	
U 0501 0332 Minorities in Business	3
U 0501 0335 Small Business Management	3
U 0506 0363 Business and Society	3
U 0503 0371 Management Information Systems	3
U 0503 0372 Management Science	3
U 0501 0431 Middle and First Line Management	3
U 0501 0433 Entrepreneurship and Innovation	3
U 0501 0434 Comparative Management Systems	3

Concentration in Marketing

U 0509 0343 Promotion and Persuasion	3
U 0509 0442 Marketing Research	3
U 0509 0446 Marketing Strategies	3
One of the following electives:	
U 0509 0342 Concentration in Marketing	3
U 0509 0344 Advertising Media	3
U 0503 0386 Logistics Systems	3
U 0509 0441 Consumer Motivation	3

Concentration in Quantitative Methods

Select any four (4) of the following:

U 0503 0274 Business Computer Programming	3
4 0503 0371 Management Information Systems	3
U 0503 0372 Management Science	3
U 0503 0374 Computer Management	3
U 0503 0375 Operations Analysis	3
U 0503 0474 Business Forecasting	3
U 0503 0475 Quantitative Decision-Making for Business	3

Departmental Electives	15-16
------------------------------	-------

IV. Free or Collateral Electives 31

Concentration in General Business

Select any four (4) courses from at least three (3) areas of concentration.

Administrative Sciences

Course Descriptions

U 0501 0231 The Management Process

The field of management theory and practice; classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships; quantitative tools as decision aids, especially in production and operations. 3 s.h.

U 0501 0315 Organizational Behavior

Major approaches to the study of organizations. Organizational systems and structure, systems of communication, power and influence, organizational conflict, coordination and control, leadership, motivation, interpersonal dynamics and change and renewal. 3 s.h.

Prerequisite: U 0501 0231 and 3 semester hours of anthropology, psychology or sociology.

U 0501 0316 Human Resource Management

Motivating managerial and non-managerial employees; effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees. 3 s.h.

Prerequisite: U 0501 0231.

U 0501 0317 Motivation and Leadership

In-depth analysis of the human element; analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application; case studies. 3 s.h.

Prerequisite: U 0501 0315.

U 0501 0332 Minorities in Business

Methods, techniques and problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms; minority group members as entrepreneurs; relationships with other members of an organization. 3 s.h.

Prerequisite: U 0501 0231 or U 0509 0241.

U 0501 0335 Small Business Management

The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth. 3 s.h.

Prerequisite: U 0501 0231, U 0509 0241, U 0504 0321.

U 0501 0336 International Business Management

General theory on international trade; the mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of markets abroad, financing of international trade and handling of export shipment. 3 s.h.

Prerequisites: 3 2204 0102 Micro Economics.

U 0501 0414 Organizational Structure & Design: A Systemic Approach

Review of theories and models to conceptualize the overall structure and functioning of organizations. Application of socio-technical systems analysis to the problems facing management in the modern industrial state. 3 s.h.

Prerequisite: U 0501 0315.

U 0501 0431 Middle and First Line Management

The specific functions which Middle and First Line managers must perform in a production operation, designed so that the student upon graduation can move directly into a management position. The effects of change in management philosophies and the need to acquaint the student with these changes. 3 s.h.

Prerequisites: U 0501 0231, U 0502 0202.

U 0501 0433 Entrepreneurship and Innovation

Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise; examples of successful entrepreneurship; role-playing and situational exercises. 3 s.h.

Prerequisite: U 0501 0231.

U 0501 0434 Comparative Management Systems

Multi-national corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in newly-developed economies and in highly-industrialized economies; public corporations, non-profit organizations, mixed enterprise. 3 s.h.

Prerequisite: U 0501 0231, 0315.

U 0501 0439 Business Policy

Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision-making under conditions of risk and uncertainty; planning and strategy in a changing environment; reconciling departmental goals and company objectives through the systems approach; the effects of corporate decisions on public policy. Case studies and simulation games. 3 s.h.

Prerequisite: Open only to seniors who have completed the required business core.

U 0502 0201 Fundamentals of Accounting I

Mastery of the fundamental elements of accounting; journalizing, posting, taking a trial balance, preparing financial statements, and closing books; special journals and controlling accounts. 3 s.h.

U 0502 0202 Fundamentals of Accounting II

Builds on Financial Accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships. Prerequisite: U 0502 0201. 3 s.h.

U 0502 0301 Intermediate Accounting I

The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments. 3 s.h.

Prerequisite: U 0502 0202.

U 0502 0302 Intermediate Accounting II

A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds. 3 s.h.

Prerequisite: U 0502 0301.

U 0502 0303 Auditing Theory and Practice

The conduct of audits of various types; the balance sheet audit; audit working papers; correction of books and preparation of audit reports.

3 s.h.

Prerequisite: U 0502 0302.

U 0502 0307 Cost Accounting and Control I

The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.

3 s.h.

Prerequisite: U 0502 0202.

U 0502 0308 Cost Accounting and Control II

Estimating cost, standard cost, budgets and cost, analysis and control of costs, break-even analysis and differential cost analysis.

3 s.h.

Prerequisite: U 0502 0307.

U 0502 0401 Advanced Accounting

Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.

3 s.h.

Prerequisite: U 0502 0302.

U 0502 0403 Tax Accounting

A comprehensive picture of the federal tax structure; the determination of net income, credits exemptions and rates for various taxpayers.

3 s.h.

Prerequisite: U 0502 0202.

U 0502 0404 Current Tax Problems

Advanced phases of income taxation with particular attention to corporations, partnerships and estates.

3 s.h.

Prerequisite: U 0502 0403.

U 0502 0405 Profit Planning and Control

Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production, and flexible budgets.

3 s.h.

Prerequisite: U 0502 0307.

U 0502 0407 Accounting Systems and Data Processing

Analysis of accounting systems and the organization of accounting information for use with manual and automated methods.

3 s.h.

Prerequisite: U 0502 0202.

U 0502 0409 CPA Review

Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the State of New Jersey.)

3 s.h.

Prerequisite: U 0502 0303.

U 0503 0271 Business Statistics I

Modern statistical methods and decision-making in the face of uncertainty. Probability theory, Bayesian analysis, discrete and continuous distribution, sampling, hypothesis testing and statistical quality control.

3 s.h.

Prerequisite: S 1701 0112 Introduction to Linear Algebra. Not open to students who have completed S 1701 0210 Statistical Methods I or 1701 0443 Statistics: Theory and Applications or 3 2204 0203 Economic Statistics.

U 0503 0272 Business Statistics II

Continuation of Business Statistics I. Nonparametric methods, analysis of variance, correlation and regression, time-series analysis, index numbers and Bayesian analysis.

3 s.t.

Prerequisite: U 0503 0271 or equivalent.

U 0503 0273 Information Processing

Electronic computers in business information processing. History of information processing, needs of high-speed equipment, numbering systems, input/output devices, stored program concept, introduction to computer programming, and file manipulation technique. 3 s.h.

U 0503 0274 Business Computer Programming

Computer languages such as COBOL and FORTRAN; their use in developing business applications system and in scientific computations in business research.

Prerequisite: U 0503 0273 or equivalent.

3 s.h.

U 0503 0362 Business Economics

Managerial decision-making; the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills. 3 s.h.

Prerequisite: 3 2204 0101 or 0102, U 0501 0231 or U 0504 0321.

U 0503 0371 Management Information Systems

Total information systems from the perspective of organizations. Information from the management point of view; its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting. 3 s.h.

Prerequisite: U 0502 0202, U 0501 0231, U 0503 0272 (or taken concurrently), U 0503 0273.

U 0503 0372 Management Science

The student integrates his knowledge of quantitative techniques and organizational behavior in formulating complex management problems; quantitative techniques applied to problem-solving and decision-making. 3 s.h.

Prerequisite: U 0502 0202, U 0501 0231, U 0503 0272, U 0503 0273.

U 0503 0374 Computer Management

Optimum selection of computer hardware, software and operating systems among various alternatives, from a cost effectiveness point of view. 3 s.h.

Prerequisite: Same prerequisites as U 0503 0371.

U 0503 0375 Operations Analysis

Mathematical and statistical methods in the analysis of specific business systems and industrial production activities; inventory control, production planning and scheduling, and capital management. Computers used to solve problems involving complex calculations. 3 s.h.

Prerequisite: U 0503 0372.

U 0503 0386 Logistics Systems

The logistics sub-system in the economy and the firm, definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the interface of logistics activities and other functional areas of business. 3 s.h.

Prerequisite: U 0501 0231, U 0509 0241.

U 0503 0463 Administrative Research Methodology and Analysis

Scientific investigation; data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems. 3 s.h.

Prerequisite: U 0503 0272 (or taken concurrently).

U 0503 0474 Business Forecasting

Mathematical and econometric models for short- and long-range business forecasting. Models evaluated for accuracy; the computer as a tool in developing automated forecasting systems.

3 s.h.

Prerequisite: U 0503 0272, 0273 (or equivalent).

U 0503 0475 Quantitative Decision-Making for Business

Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and simulation applied to typical managerial problems.

Prerequisite: U 0501 0231, U 0509 0241, U 0503 0272 (or taken concurrently).

3 s.h.

U 0504 0321 Fundamentals of Finance

The statement of sources and uses of funds; determining specific assets to acquire, and financing them. Financial institutions, debt and equity instruments of finance, short- and long-term financing, insuring against risk and uncertainty, optimum capital structure, selection of alternative investments, and dividend and interest policies.

3 s.h.

Prerequisite: U 0502 0202.

U 0504 0322 Capital Budgeting Management

Analysis of capital expenditures under certainty and uncertainty; lease or purchase decision; mergers and acquisitions; capital reinvestment; extensive use of quantitative tools. Case studies from business situations and current readings.

3 s.h.

Prerequisite: 3 2204 0101, 0102 Principles of Economics: Macro and Micro. U 0503 0272, 0321.

U 0504 0326 Investment Principles

Financial assets and markets; Investor's attitude, goals and constraints. Risk-return characteristics of securities; Analysis of the company, the industry and the market and other factors affecting the risk-return combination; introduction to valuation of securities and portfolio management.

3 s.h.

Prerequisites: 3 2204 0101, 0102; U 0503 0272; U 0504 0321.

U 0504 0327 International Financial Management

A description and analysis of the unique financial opportunities and problems facing the firm involved in international business activities. Techniques include sources and uses of funds in international environment, short-term international cash and securities management, hedging techniques, capital budgeting and capital costs for the international firm.

3 s.h.

Prerequisite: U 0504 0321.

U 0504 0423 Capital Structure Management

Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity, Modigliani and Miller's Hypothesis, and other leading authors' attitudes from current literature. Cost of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings: dividend policies, public offerings.

3 s.h.

Prerequisite: 6 credits in Finance.

U 0504 0425 Working Capital Management

Detailed analysis of a corporation's sources and uses of short-term funds; optimum levels of cash, inventory, accounts receivable, and accounts payable; depreciation use of surplus cash, commercial paper and financial intermediaries.

3 s.h.

Prerequisite: U 0504 0321.

U 0504 0427 Security Analysis

Critical examination of investment theories; analysis of securities, primarily

private corporations; evaluations of factors affecting the return from a security; forecasting the return-risk characteristics of stocks and bonds; introduction to portfolio strategies and workable criteria for the selection (or rejection) of these securities. 3 s.h.

Prerequisite: U 0504 0326 (corequisite).

U 0504 0428 Portfolio Theory and Its Applications

Application of covariance principle in valuation of securities; critical look into management of risk in financial investments; application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies. 3 s.h.

Prerequisite: 6 credits in Finance.

U 0506 0261 Legal Environment of Business I

A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the Uniform Commercial Code as a basis for interpretation. Case material.

3 s.h.

U 0506 0262 Legal Environment of Business II

An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the Uniform Commercial Code. Case material (recommended for CAP preparation). 3 s.h.

Prerequisite: U 0506 0261.

U 0506 0263 Legal Environment of Business III

An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basic statutory sources employed are the Uniform Partnership Act and the Model Business Corporation Act. Case material. 3 s.h.

Prerequisite: U 0506 0261.

U 0506 0363 Business and Society

Business as an institution in our pluralistic society; its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future; strengths, weaknesses and overall contribution to society; ecology, minority groups and the quantity and quality of economic growth.

3 s.h.

U 0506 0392 Business Internship

Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.

Prerequisite: By permission of department chairman. 1-3 s.h.

U 0506 0464 Legal Problems of the Marketing Process

The historic and social relationships of Law and Marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business; behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal Problems of International Marketing and Distribution. 3 s.h.

Prerequisites: U 0509 0241, U 0506 0261.

U 0506 0491 Business Problems

The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used for independent study.

Prerequisite: Permission of the department chairman.

1-3 s.h.

U 0506 0499 Honors Seminar

Opportunity for a select number of students to study management issues in a small, intimate classroom environment. Students will be given a broad range of opportunities for exploration of the literature as well as of investigation of the problems selected out for detailed study. 3 s.h.

Prerequisite: Limited to administrative science students with senior standing upon the recommendation of a faculty member of the department.

U 0509 0241 The Marketing Process

The role of marketing; significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices. 3 s.h.

U 0509 0342 Sales and Concepts and Practices

The total package sales concept in which the salesperson assists his accounts (wholesale, retail, industrial) in the preparation of sales and profit plans, inventory control, advertising and promotion, financial counseling, product mix, legal limitations, training personnel, and branch expansion. Selling strategies, trading center analysis, franchise and product presentation, price discounting and credit and collections. 3 s.h.

Prerequisite: U 0509 0241.

U 0509 0343 Promotion and Persuasion

Promotion and persuasion as they relate to the major communications activities of marketing, personal selling and advertising. Communication theory, opinion formation, attitude change and measurement, and influence forces. 3 s.h.

Prerequisite: U 0509 0241.

U 0509 0344 Advertising Media

An opportunity to study advertising media such as newspapers, magazines, radio television and direct mail, and to evaluate their effectiveness in terms of campaigns. 3 s.h.

Prerequisite: U 0509 0343.

U 0509 0349 International Marketing

The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies. 3 s.t.

Prerequisite: U 0509 0241.

U 0509 0441 Consumer Motivation

Industrial and consumer buying behavior; the use of consumer products. Behavior science findings, marketing research techniques and consumer attitudes; socio-economic and demographic variables. 3 s.t.

Prerequisite: U 0509 0241.

U 0509 0442 Marketing Research

A broad management perspective on market research methodology. A systematic approach; collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation analysis and report presentation. 3 s.t.

Prerequisite: U 0509 0241, U 0503 0272 (or taken concurrently).

U 0509 0446 Marketing Strategies

Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making; sophisticated techniques for problem-solving. Case studies help to develop an analytical posture. 3 s.t.

Prerequisite: U 0509 0442.

DEPARTMENT OF BUSINESS AND DISTRIBUTIVE EDUCATION

Professors: Rossetti, Chairman; Hecht, Nanassy

Associate Professor: Kruk

Assistant Professor: Cyrus

Instructors: McCauley, Stevens, Uzzolino

One objective of the department is to prepare students to teach general business subjects in secondary schools in combination with:

1. bookkeeping and accounting
2. secretarial subjects or
3. distributive education subjects such as marketing, retail merchandising and advertising

Students in those programs follow a professional sequence, qualifying them for a New Jersey Teaching Certificate.

Another objective of the department is to prepare office supervisors, administrative office managers, or administrative service managers equipped to manage the changing office structure.

All work in Business and Distributive Education is open to students who have never studied business subjects before entering college.

Students in the Business Teacher Education major must complete a minimum of 400 hours of full-time related business experience, during a summer session prior to the senior year.

Students in the Distributive Teacher Education major must complete a minimum of 800 hours of full-time related distributive occupational experiences, during two summer sessions prior to the senior year.

Phi Beta Lambda serves all Secretarial or Accounting Education majors, and the Distributive Education Clubs of America (DECA) all Distributive Education majors; students are required to join and participate in activities.

The department also has two honorary fraternities, Pi Omega Pi and Epsilon Delta Epsilon. Students who have achieved high academic standards are invited to become members.

Business and Distributive Education Major

I.	Professional Sequence (identical for all three majors)	semester hours
	Human Growth and Development	3
	Educational Psychology	3
	Teacher, School and Society	3
	Departmental Methods	3
	Junior Field Experience	1
	Senior Field Experience	1
	Seminar: Problems of Classroom Teaching	1
	Supervised Student Teaching	8
	REQUIRED TOTAL	23

II. Collateral courses 2204 0101, 0102 and 1701 0109 or 0110 may be applied to general education requirements.

III. Specializations.

Accounting and General Business Education

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 ea.
U 0501 0231	The Management Process	3
U 0509 0241	The Marketing Process	3
U 0506 0261, 0266	Legal Environment of Business I, II	3 ea.
U 0502 0301, 0302	Intermediate Accounting I, II	3 ea.
U 0504 0321	Principles of Finance	3
V 0838 0101	Introduction to Business	3

V 0838 0309	Consumer Economics	3
V 0838 0320	Business Communications	3
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
V 0838 0402	Principles and Methods of Teaching Accounting	2
V 0838 0406	Office Management and Procedures—Clerical.	3
V 0838 0434	Introduction to Data Processing	3
V 0838 0435	Computer Application of Office Systems	3
V 0838 0449	Supervised Business Work Experience	2

REQUIRED TOTAL 52*

Free Electives	17
--------------------------	----

*One credit allocated to professional sequence

Secretarial and General Business Education

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 ea.
U 0501 0231	The Management Process	3
U 0509 0241	The Marketing Process	3
U 0506 0261, 0262	Legal Environment in Business I, II.	3 ea.
V 0838 0101	Introduction to Business	3
V 0838 0203	Production Typing	1
V 0838 0303	Advanced Steno and Transcription.	2
V 0838 0309	Consumer Economics	3
V 0838 0320	Business Communications	3
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
V 0838 0403	Principles and Methods of Teaching Stenography	1
V 0838 0406	Office Management and Procedures—Clerical.	3
V 0838 0407	Office Management and Procedures—Secretarial	3
V 0838 0434	Introduction to Data Processing.	3
V 0838 0435	Computer Application of Office Systems	3
V 0838 0449	Supervised Business Work Experience	2

REQUIRED TOTAL 48

Free Electives	20
--------------------------	----

Distributive and General Business Education

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 ea.
U 0501 0231	The Management Process	3
U 0509 0241	The Marketing Process	3
U 0506 0261, 0262	Legal Environment in Business I, II	3 ea.
U 0509 0343	Promotion and Persuasion	3
V 0838 0101	Introduction to Business	3
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	3
V 0838 0401	Principles and Methods of Teaching General Business.	3
V 0840 0208	Salesmanship	3
V 0840 0219	Merchandise Information	3
V 0840 0348	D. E. Practicum I	3
V 0840 0411	Retail Store Math and Management	3
V 0840 0422	Visual Merchandising.	3
V 0840 0423	Buying for Distribution.	3
V 0840 0450	Supervised Work Experience I and II	2 ea.
V 0840 0455	Curriculum Organization and Administration—D. E.	5

REQUIRED TOTAL 5

Free Electives	1
--------------------------	---

Office Systems Administration**

The following represent the majority of the requirements for this program. Consultation with your faculty advisor is essential to clarify specific details of the final program:

I.	Collateral courses 3 2204 0101, 0102 and S 1701 0109 may be applied to general education requirements.	
II.	V 0838 0101 Introduction to Business.....	3
	V 0845 0320 Business Communications.....	3
	V 0845 0321 Records Management	3
	V 0845 0406 Office Services & Procedures—Clerical	3
	V 0845 0408 Principles of Office Management.....	3
	V 0845 0409 Word Processing Management.....	3
	V 0838 0434 Introduction to Data Processing.....	3
	V 0838 0435 Computer Applications of Office Systems	3
	U 0502 0201, 0202 Fundamentals of Accounting I, II	6
	U 0501 0231 Management Process	3
	U 0509 0341 Marketing Process	3
	U 0506 0261 Legal Environment of Business I	3
	U 0501 0316 Human Resource Management.....	3
III.	Electives Selected from Major	12

*This is a concentration in Business Administration which is administered by the Department of Business and Distributive Education.

Business Education Course Descriptions

V 0838 0101 Introduction to Business

The functions of business, bank services, credit, insurance, forms of business organization, location and layout, purchasing and stock control, production problems, finance and personal problems. 3 s.h.

V 0838 0103 Beginning Typewriting

For students with no previous instruction. Learning to touch typewrite; the typewriter as a communications tool in the preparation of basic letters, reports, tables and other applications. 2 s.h.

V 0838 0104 Intermediate Typewriting

Increasing speed with accuracy; applying skill in the production typewriting of business-related projects; extending competency to qualify for office employment. Prerequisite: V 0838 0103. 2 s.h.

V 0838 0203 Production Typewriting

Taken in conjunction with Methods of Teaching Typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting. Prerequisite: V 0838 0104. 1 s.h.

V 0838 0205 Beginning Stenography

The theory of Gregg Diamond Jubilee stenography. Learning to read shorthand fluently and to take dictation on familiar material. 3 s.h.

V 0838 0206 Intermediate Stenography and Transcription

Gregg stenography theory reviewed; unfamiliar dictation given at moderate speeds; vocabulary building; transcription techniques. Prerequisite: V 0838 0205. 3 s.h.

V 0838 0303 Advanced Stenography and Transcription

Taken in conjunction with Methods of Teaching Shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar,

spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses. 2 s.h.
Prerequisite: V 0838 0206.

V 0838 0309 Consumer Economics

The role of the consumer in the economy with emphasis on forces affecting consumer demand; governmental and private agencies aiding the consumer; intelligent techniques for buying and using consumer goods and services. 2 s.h.

V 0845 0320 Business Communications

Designed as an enrichment to basic communications and to advance students in business education, as well as allied areas, with an appreciation of an ability to handle oral and written communications, coupled with a proficient skill in handling up-to-date devices for processing communications. 3 s.h.

V 0845 0321 Records Management

Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel. 3 s.h.

V 0838 0340 Foundations of Vocational Education for Business and Distributive Education

Junior professional course for business/distributive education majors. Vocational programs currently found in the secondary school setting, with emphasis on practices and principles of business and distributive education curriculum and priorities. Student observations in public schools. 3 s.h.

V 0838 0390, 0391 Business Independent Study I and II

Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairman. 2 s.h.

V 0838 0401 Principles and Methods of Teaching General Business

The methodology of teaching general business subjects, including general business law and consumer education. Content, lesson planning, visual aids and evaluation procedures. 2 s.h.

Prerequisite: 12 hours of general business courses.

V 0838 0402 Principles and Methods of Teaching Accounting

The history and development of accounting instruction and materials, aims and objectives in the light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required. 2 s.h.

Prerequisite: 12 semester hours of Accounting.

V 0838 0403 Principles and Methods of Teaching Stenography

Complements V 0838 0303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the materials and methods for teaching stenography. 1 s.

Prerequisite: V 0838 0206.

V 0838 0404 Principles and Methods of Teaching Typewriting

Complements 0838 0204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development. 1 s.

Prerequisite: V 0838 0203.

V 0838 0406 Office Services and Procedures—Clerical

Exploring current office equipment, trends and techniques. Hands-on operation

business equipment, including calculators, duplicators, dictators/transcribers and special typewriters. 3 s.h.

V 0838 0407 Office Services and Procedures—Secretarial

For prospective teachers of Secretarial Studies. The secretary's role in the modern office environment. Executing long-range projects, working in team situations and experiencing hands-on operation of duplicating, transcription, dictation and special typewriters. 3 s.h.

Prerequisite: V 0838 0406; V 0838 0203; V 0838 0206.

V 0845 0408 Principles of Office Management

A study of the most acceptable methods and practices of office administration. Topics to be studied include, organization and planning of office systems, leadership and human relations, controlling operations and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction. 3 s.h.

V 0845 0409 Word Processing Management

An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings. 3 s.h.

V 0838 0420 Field Studies for Business Education

Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited. 2 s.h.

V 0838 0434 Introduction to Business Data Processing

The literature and vocabulary of business data processing input and output media; types of equipment, installations, job analysis and systems development. From basic manual procedures to modern computer concepts, including business problem programming in the COBOL language. 3 s.h.

Prerequisite: U 0502 0201.

V 0838 0435 Computer Applications of Office Systems

Focus will be on the functions of the computer in office systems. The business education student will study basic elements of the COBOL computer language and utilize this knowledge in solving problems common to the office management setting. Laboratory problems will concentrate on the design, utilization, interpretation, and evaluation of computer applications to functions of the office manager. 3 s.h.

Prerequisite: V 0838 0434.

V 0838 0449 Supervised Business Work Experience

An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program. 2 s.h.

V 0838 0480 Touch Shorthand in Recording Communication

Keyboard reaction patterns and theory concepts of the touch shorthand machine; developing basic skills and a knowledge of the machine's operation. Methods of presentation and organizing and evaluating a course in touch shorthand. 2 s.h.

Distributive Education

Course Descriptions

V 0840 0208 Salesmanship

Fundamentals; some of the concepts of the behavioral sciences and finance, as well as marketing. The functions of the industrial salesman; the retail salesman. Student sales demonstrations apply the theories of selling. 3 s.h.

V 0840 0249 Merchandise Information

Textile and non-textile information; background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products. 2 s.h.

V 0840 0348 Practicum in Distributive Education I

Junior professional experience for Distributive Education majors. Observation of distributive education classes and DECA activities. Teaching distributive subjects in community programs and governmental agencies. 1 s.h.

Prerequisite: Acceptance in teacher education program in Distributive Education.

V 0840 0411 Retail Store Merchandising and Management

Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer. 3 s.h.

V 0840 0422 Visual Merchandising

Principles and elements of color, line, form, texture and space as they relate to displays, merchandising and advertising. Display space, lighting arrangements, improvisation of display equipment, the use of paper mache forms, seasonal displays, equipment and care of display fixtures. 3 s.h.

Prerequisite: Permission of instructor (for non-majors).

V 0840 0423 Buying for Distribution

Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying. 2 s.h.

V 0840 0450, 0451 Supervised Work Experience and Seminar I and II

Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years. 2 s.h. ea.

Prerequisite: V 0840 0208, U 0509 0241. Distributive Education majors only.

V 0840 0454 Principles and Methods of Teaching Distributive Education and Coordination

Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching; forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE Club as a teaching device. 3 s.h.

Prerequisite: V 0840 0455. Two years of curricular activities with DECA.

V 0840 0455 Curriculum, Development of Distributive Education

Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs. 3 s.h.

DEPARTMENT OF HEALTH PROFESSIONS

Professors: Hoitsma, Chairman; Coder, Redd

Associate Professors: Paskert

Assistant Professors: Blanche, Coaxum, Davidson, Ficke, Ried, Shahrokh, Wiig

The Department of Health Professions, a member of the Panzer School Council, offers two basic undergraduate curricula: (1) Health Education and (2) Allied Health Services. The Bachelor of Arts degree candidates in health education follow one of two options: (1) preparation for teaching health education in schools through a professional sequence of education offerings, and (2) preparation for community health service positions through a selection of specialization courses.

The Bachelor of Science degree in allied health services is designed for allied health specialists who have completed one or two years of post-secondary professional training in a two-year college or in other academic settings. It provides opportunities for the development of collateral competencies in management, supervision, and teaching at the secondary as well as the post-secondary levels.

The programs are broadly based to prepare students for emerging opportunities in selected aspects of the health field. The curricula are carefully designed to develop understanding and skills necessary in dealing with contemporary and future health concerns, including those pertaining to the functions of health education specialists, and allied health practitioners seeking managerial, supervisory, or health services positions. Courses in the specialization areas are complemented by broad general education requirements and selected collateral offerings; supervised field study is provided in school and community health programs.

The objectives of the department are:

1. to provide students with a broad selection of educational opportunities in the health professions field
2. to prepare health educators for positions in schools and communities
3. to prepare allied health services personnel for managerial, supervisory, and educational positions
4. to provide programs for students planning advanced study in selected areas of the health professions field.

Health Education Major

	semester hours
I. Professional Sequence	*29
A. Pre-professional Semester — Teaching Major	
7 2001 0101 Human Growth and Development	3
7 2001 0200 Educational Psychology	3
B 0829 0410 Field Experience in Education	1
B 0837 0401 The Teaching of Health	3
B. Professional Semester — Health Education Concentration**	
B 0829 0400 Teacher, School and Society	3
B 0829 0401 Senior Field Experience	1
B 0829 0402 Seminar in Professional Education	1
B 0829 0411 Supervised Student Teaching	8
C. Professional Sequence — Community Health Services Concentration**	
W 0837 0245 Observation of Health Agencies	2
W 0837 0350 Field Study in Health	6
W 0837 0460 Systems of Health Services Delivery	3
Social and Behavioral Sciences (in addition to previous requirements)	6
Mathematics and Sciences (in addition to previous requirements)	6
II. Specialization	48
W 0837 0101 Health for Personal Living	3

W 0836 0207	Introduction to Safety	3
W 0837 0232	Emergency Health Care	3
W 0837 0210	Consumer Health	3
W 0837 0220	Mental Health	3
W 0837 0240	Foundations of Environmental Health	3
W 0837 0290	Human Sexuality	3
W 0837 0300	Current Problems in Health	3
W 0837 0305	Communicable Diseases	3
W 0837 0310	Chronic and Degenerative Diseases	3
W 0837 0313	The Drug Abuse Problem	3
W 0837 0315	Community Health	3
X 1301 0182	Nutrition	3
Q 0401 0250	Microbiology	3
W 0837 0404	Tests and Measurements in Health Education	3
W 0837 0411	The School Health Problem	3
Collateral Requirements — (Meets general education requirements)		
Q 0401 0100	Biological Sciences	4
Q 0401 0240, Q 0401 0241	Mammalian Anatomy and Physiology I & II	6
R 1905 0107, R 1905 0108	College Chemistry I & II	6
K 1501 0105, K 1501 0106	Freshman Composition and Introduction to Literature	6
	Social and Behavioral Sciences	6
	Speech	3

III. Electives

20

*Include 6 s.h. state-mandated reading requirement

**Select either concentration (B or C)

Allied Health Major

The Bachelor of Science degree in Allied Health Services constitutes an upper division program designed to provide continuing educational opportunities for credentialed allied health practitioners who have completed post-secondary professional education in two-year colleges or in other academically-accredited settings. The program has been planned cooperatively with five county colleges and the New Jersey College of Medicine and Dentistry, and is attempting to serve a wide range of allied health specialists through courses of study individualized to meet the needs and objectives of each student. The program provides for the development of leadership competencies in teaching, management and supervision, through the offerings of Montclair State College and through selected coursework available at cooperating institutions.

General Summary of Allied Health Services Degree Requirements

I. Allied Health Services — Core Courses	semester hour
W 0837 0441 Allied Health Care Services	Minimum of
W 0837 0455 Core Concepts in the Delivery of Health Care	2
W 0837 0456 Clinical Internship in Allied Health	
W 0837 0457 Professional Issues in Allied Health	
W 0837 0460 Systems of Health Services Delivery	
II. General Professional Development	Minimum of
W 0837 0210 Consumer Health	
W 0837 0220 Mental Health	
W 0837 0240 Foundations of Environmental Health	
W 0837 0290 Human Sexuality	
W 0837 0300 Current Problems in Health	

W 0837 0305	Communicable Diseases.....	3
W 0837 0310	Chronic-Degenerative Diseases.....	3
W 0837 0315	Community Health.....	3
W 0837 0404	Tests and Measurements in Health Education.....	3
W 0837 0413	The Drug Abuse Problem.....	3
W 0837 0445	Perspectives on Death	3
X 1301 0182	Nutrition	3
Q 0401 0250	Applied Microbiology.....	3
7 2001 0255	Environmental Psychology.....	3
4 2206 0421	Population Problems of the World	3
O 1509 0261	Morals and Medicine.....	3
8 2208 0211	Sociology of Health and Illness.....	3
8 2208 0311	Urban Sociology.....	3
X 1301 0282	Community Nutrition.....	3
H 1017 0160	Introduction to Music Therapy.....	2
	Or other selected courses with approval of program coordinator.	

III. Professional Sequence (Select option A, B, or C) 29*

A. Teacher Preparation — Secondary School Level

7 2001 0101	Human Growth and Development	3
7 2001 0200	Educational Psychology	3
W 0837 0458	Curriculum and Teaching in Health Occupations Education.....	3
Y 0998 0401	Principles and Philosophy of Vocational Technical Education	3
C 0821 0420	Philosophic Foundations of Education	3
B 0829 0411	Supervised Student Training	

OR

B 0829 0414, 0415	In-Service Supervised Teaching I, II	8
-------------------	--	---

*Includes 6 s.h. state-mandated reading requirement.

NOTE: Subject to alteration by change in State education certification requirements.

B. Teacher Preparation — Post-Secondary School Level

23

(Open only to candidates who are credentialed in an allied health specialty and have had three years of occupational experience.)

7 2001 0101	Human Growth and Development	3
7 2001 0200	Educational Psychology	3
W 0837 0458	Curriculum and Teaching in Health Occupations Education	3
Y 0998 0401	Principles and Philosophy of Vocational Technical Education	3
C 0821 0420	Philosophic Foundations of Education	3
B 0829 0411	Supervised Student Teaching	

OR

B 0829 0414, 0415	In-Service Supervised Teaching I, II	8
-------------------	--	---

C. Professional Preparation — Managerial, Supervisory Functions in Selected Allied Health Professions Areas

Minimum of 24

U 0501 0231	The Management Process	3
U 0501 0315	Organizational Behavior	3
U 0501 0316	Human Resource Management	3
W 0838 0406	Office Management and Procedures — Clerical	3
O 1509 0261	Morals and Medicine	3
8 2208 0303	Large Scale Organization	3
8 2208 0304	Sociology of Work Professions	3
7 2001 0270	Industrial and Organizational Psychology	3
6 2207 0309	Urban Politics	3
6 2207 0315	Urban Administration	3
S 1701 0107	Computer and Society.....	3

U 1506 0331	Public Speaking: A Rhetorical Approach	3
X 1301 0445	The Inner City Family	3
X 1301 0370	Individual & Family Problem Solving	3
F 0842 0431	Individual and Group Dynamics.....	3

IV. Electives**No Minimum is Necessary**

It is recommended that courses be elected which will supplement and enhance the student's particular educational and career goals. The selected courses may support the broad scope aspect of the program or meet a particular need in terms of a specific interest, professional-technical requirement, or work-related activity.

10-16

Health and Physical Education Major

The Department of Health Professions offers a Health Education component within a health and physical education major program provided in conjunction with the Department of Physical Education. Satisfactory completion of studies in this program leads to eligibility for a single New Jersey teaching certificate in health and physical education.

The Health Education component in this program is as follows:

		semester hours
W 0837 0101	Health for Personal Living	3
W 0837 0290	Human Sexuality	3
W 0837 0210	Consumer Health	3
W 0830 0220	Mental Health*	3
W 0837 0240	Fundamentals of Environmental Health	3
W 0837 0305	Communicable Diseases.....	3
W 0837 0310	Chronic-Degenerative Diseases.....	3
W 0837 0315	Community Health.....	3
W 0837 0411	The School Health Program	3
W 0837 0313	The Drug Abuse Problem	3
W 0837 0401	The Teaching of Health.....	3
	Tests and Measurements in Health Education	3
	Recommended in addition to	
W 0837 0355	Measurements and Evaluations in Physical Education ..	2

Collateral Courses

R 1905 0107, 0108	College Chemistry I & II.....	3 ea.
Q 0401 0240, 0241	Mammalian Anatomy and Physiology I & II.....	3 ea.

Physical Education requirements in this program are described under the Department of Physical Education offerings in another section of this catalog.

Students who desire separate certificates (one in health education and another in physical education) must complete the approved college curriculum for both of these majors.

Health Education

Course Descriptions

W 0837 0100 Healthful Living

The achievement and maintenance of optimum personal health. Mental health, nutrition and weight control, drug use and abuse, communicable diseases, chronic and degenerative diseases, sexual adjustment, consumer health and environmental health.

2 s.i.

W 0837 0101 Health for Personal Living

Nature and causes of human health problems; preventive measures the individual can employ. Mental health, nutrition and weight control, physical fitness, con-

municable diseases, chronic and degenerative diseases, drug use and abuse, marriage and family life, and consumer health. 3 s.h.

W 0837 0210 Consumer Health

Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior. 3 s.h.

W 0837 0220 Mental Health

Provides for a study of human personality and the conditions conducive to its healthy development. Considerations are also given to the dynamics of "adjustment," causes of "maladjustment," and the nature of various emotional disorders and illnesses and their treatment. 3 s.h.

Prerequisite: A basic course in sociology, psychology, biology or anthropology.

W 0837 0232 Emergency Health Care

Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.) Surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures. 2 s.h.

Prerequisite: American Red Cross First Aid Certification Standard or W 0834 0150.

W 0837 0240 Foundations of Environmental Health

A multidisciplinary exploration of man's relation to his environment. The influence of man's action on the physical environment, and the effects of alteration of environment on man's mental and physical well-being. Environmental awareness underscored by contrasting rural and urban-industrial field experiences. 3 s.h.

W 0837 0245 Observation of Health Agencies

An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. For majors and non-majors. 2-3 s.h.

Prerequisite: W 0837 0101.

W 0837 0290 Human Sexuality

Considers the biological, psychological, sociological, and philosophical aspects of human sexuality. The human reproductive system, sexual response, contraception, psycho-sexual development, homosexuality, sex and drugs, cross-cultural sexual behavior, and prostitution. 3 s.h.

Prerequisite: A basic course in sociology, psychology, biology or anthropology.

W 0837 0300 Current Problems in Health

Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues, from the standpoint of recent scientific and societal developments. 3 s.h.

W 0837 0301 Addictions and Dependencies

Nature and causes of drug dependencies, including study of substances capable of producing dependency. Preventive measures and various approaches to treatment and rehabilitation of drug-dependent persons. 2 s.h.

W 0837 0305 Communicable Diseases

A basic course in communicable diseases. Includes study of historical background, societal implications, as well as consideration of the epidemiology of specific communicable diseases. 3 s.h.

W 0837 0310 Chronic and Degenerative Diseases

The problems of chronic and degenerative diseases as a cause of death and

disability. The nature and causes of various chronic and degenerative diseases along with the measures for their prevention and treatment. 3 s.h.

W 0837 0313 The Drug Abuse Problem

The physical, psychological, pharmacological, societal, legal and educational aspects of drug abuse. Rehabilitative and preventive measures against a background of constantly-changing conditions. 3 s.h.

W 0837 0315 Community Health

A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems. 3 s.h.

Prerequisite: A basic course in health.

W 0837 0347 Health Issues Forum

In-depth study of a health issue of current public or professional concern, including analysis of recent literature and presentations by authoritative spokesmen for significant points of view. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the Department, the course may be taken more than once. 1-3 s.h.
Prerequisite: Junior or Senior specific prerequisites may be required for certain forum topics.

W 0837 0350 Field Study in Health

Independent study; selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency. Semester hour credit determined on an individual basis. 2-6 s.h.
Prerequisite: Basic course in health.

W 0837 0367, 0368 Expanded Duties for Dental Auxiliaries

The expanded duties course serves as an overview of the many delegable tasks within dental practice and it will provide instruction in those skills needed for participation in progressive dental care delivery systems. The course is geared to the needs of dental auxiliary educators as they teach expanded duties to student dental assistants and dental hygienists. One hour lecture, three hours lab. 2 s.h. ea.
Prerequisite: Dental Hygiene Registration or Dental Assisting Certification.

W 0837 0401 The Teaching of Health

For students planning to teach health education; the development and organization of major health topics; current teaching methods and techniques, and their relation to the contemporary school health instruction program. 3 s.h.
Prerequisite: A basic course in health.

W 0837 0404 Tests and Measurements in Health Education

Statistical procedures and analysis of existing evaluation instruments
Measurements in cognitive, affective and psychomotor domains. 3 s.h.

W 0837 0411 The School Health Program

The total school health program; school health services; a healthful school environment; and the comprehensive school health education program. 3 s.h.

W 0837 0441 Allied Health Care Services

Comprehensive survey of health related occupations, with emphasis on job specifications, educational requirements, and educational and career lattices. Intended primarily for health careers educators, vocational counselors, and health educators. 3 s.h.

Prerequisite: 12 semester hours in Health Education, Applied Health Science or Guidance and Counseling, or permission of the instructor.

W 0837 0445 Perspectives on Death

Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death. 3 s.h.
Prerequisites: 0837 0220 Mental Health or 3 semester hours in psychology, or permission of the department chairman.

W 0837 0455 Core Concepts in the Delivery of Health Care

Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel. 3 s.h.
Prerequisite: Six months of occupational experience in an allied health specialty field.

W 0837 0456 Clinical Internship in Allied Health

Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives. 1-4 s.h.
Prerequisite: Professional licensure in an allied health specialty and W 0837 0441 Health Careers (may be taken concurrently).

W 0837 0457 Professional Issues in Allied Health

Explores the various components of the health services field, the system of health services delivery, and the prevailing problems and issues within the system and its components. 3 s.h.

W 0837 0458 Curriculum and Teaching in Health Occupations Education

Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional programs. First semester: Classroom teaching and special instructional methods. Second semester: Clinical instruction, curriculum development and coordination of health occupations programs. 3 s.h.
Prerequisites: Educational Psychology 7 2001 0200; W 0837 0451, 0452.

W 0837 0460 Systems of Health Services Delivery

The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves. 3 s.h.
Prerequisites: Six semester hours of course work in Health Education, or other related preparation with permission of the department chairman.

W 0836 0207 Introduction to Safety

Broad treatment of major safety areas, including transportation, public safety, industrial and home safety; accident causation and preventive measures currently employed; agencies and organizations involved in all facets of the safety movement. 3 s.h.

W 0836 0408 Driver Education

Basic course in driver education, including a comprehensive classroom phase and behind-the-wheel instruction designed specifically for the intended teacher. 3 s.h.
Note: Priority registration must be obtained through contact with instructor.

W 0836 0409 Advanced Driver Education

Advanced course in driver education for teachers, supervisors and administrators of driver education and traffic safety programs. Students must have certification in driver education in New Jersey.

3 s.h.

Prerequisite: W 0836 0408.

Note: Priority registration must be obtained through contact with instructor.



Department of Home Economics

Professors: Hall, Chairman

Associate Professors: Guthrie, Morris, Todd

Assistant Professors: Bernstein, Flint, Hudson, Kelley, Litwornia, Taneja-Jaisinghami

Instructors: Alcaro, Brause, Gordon, Mukherjee, Norris, Silver, Tabor, Weitz

Undergraduate courses in home economics are designed for students interested in:

1. entry-level positions in an existing or newly-emerging home economics profession;
2. a liberal arts education preparatory to future specialization and/or home and community living;
3. transferring from other institutions and/or departments and majoring in home economics;
4. home economics courses to enrich the academic background and perhaps to fulfill general education requirements;
5. background for advanced work in some area of the discipline.

The Home Economics Department believes that off-campus studies and work experience in agencies and organizations are a vital supplement to on-campus studies. Opportunities for off-campus experiences are available through required and elective courses; all home economics students are encouraged to choose at least one.

The department cooperates with the Merrill-Palmer Institute in Detroit, Michigan. Selected home economics majors spend their junior year at the Institute, receiving transfer credit for intensive study and experience in family relations and child development. Application forms are available in the Home Economics Department.

Home Economics Major

Programs of study can be planned within five curricula which lead to a variety of professional goals. Students should consult with their departmental advisors.

I. Major Core Requirements

		semester hours
X 1301 0100	Professional Orientation	2
X 1301 0270	The Family: Contemporary Needs & Issues I	3
X 1301 0304	Introduction to Research	3
X 1301 0400	Senior Seminar	1

Concentration in Consumer Affairs

Lois Guthrie, Coordinator

This program prepares students for positions as consumer advocates and educators, and in liaison between business and the consumer, research and product development, and government and business. The courses are planned to develop a consumer orientation to specialization areas such as foods, housing, child development, and textile products.

II. Program Requirements

		semester hours
X 1301 0140	The Family: An Interdisciplinary Approach	3
X 1301 0271	The Family: Contemporary Needs & Issues II	3
X 1301 0335	Consumers and the Market	3
X 1301 0409	Professional Practicum	8-12
X 1301 0435	Consumer Action	3
X 1301 0445	The Inner City Family	3
Consumer Affairs Emphasis	12 s.h. in one area: Foods & Nutrition or Clothing/Textiles/Housing/Interior Design or Consumer Services	12

III. Required Collateral Courses

3 2204 0101	Principles of Economics: Macro	3
8 2208	Principles of Sociology Course	3
6 2207 0302	Public Opinion & Pressure Groups	3
I 1506 0442	Argumentation & Debate	3
7 2001 0101	General Psychology I or other	3

IV. Electives - including 18 s.h. in Communications/Education/Business or Government/Public Administration	38-47
--	-------

Concentration in Family and Child Studies

Karen Todd, Coordinator

This program is designed for those interested in exploring family and child development, enriching family life or guiding and teaching young children. Students electing the teaching sequence can fulfill New Jersey certification requirements for Nursery and Kindergarten teaching.

II. Program requirements

semester hours

X 1301 0122	Clothing & Culture OR	
X 1301 0221	Fabrics for the Consumer	3
X 1301 0140	The Family: An Interdisciplinary Approach	3
X 1301 0141	Interpersonal Relations	3
X 1301 0153	Food and Man OR	
X 1301 0255	Meal Management	3
X 1301 0182	Nutrition	3
X 1301 0214	Child Development I	3
X 1301 0231	Family Economics OR	
X 1301 0331	Money Management OR	
X 1301 0435	Consumers and the Market	3
X 1301 0271	The Family: Contemporary Needs & Issues II	3
X 1301 0314	Child Development II	3
X 1301 0315	Field Experiences in Family & Child Services	3
X 1301 0342	Family Sociology	3
X 1301 0445	The Inner City Family	3
X 1301 0448	Family Counseling	3

III. Required Collateral Courses

7 2001 0101	General Psychology I	3
7 2001 0201	Child Psychology	3
Q 0401 0242	Human Biology	3
	Anthropology or Sociology	3

IV. Electives

34

Concentration in Foods and Nutrition

Barbara Litwornia, Coordinator

This program provides students with a specialized background for food and nutrition fields in business, institutions, and community agencies. Students can meet the academic requirements of the American Dietetic Association for admission to approved dietetic internships, if electives are carefully selected.

II. Program Requirements

semester hours

X 1301 0140	The Family: An Interdisciplinary Approach	
X 1301 0150	Principles of Food Preparation	
X 1301 0153	Food and Man	
X 1301 0182	Nutrition	
X 1301 0255	Meal Management	
X 1301 0271	The Family: Contemporary Needs and Issues II	
X 1301 0445	The Inner City Family	

Electives in Foods and Nutrition 2

III. Required Collateral Courses

R 1905 0107	College Chemistry I	3
R 1905 0130	Organic Chemistry	4

IV. Electives	26
-------------------------	----

Concentration in Food Service Management

Leona Weitz, Coordinator

This concentration prepares students for management positions in many diversified areas of food service by providing a program strong in foods, food related sciences, general and specialized business management skills, and culminating in a work practicum. This solid and broad background permits students to enter food service in hospitals, schools, colleges or other institutions, restaurants, hotels and motels, and airlines, or to continue studies in an advanced degree program.

II. Program Requirements

Home Economics

semester hours

X 1301 0150	Principles of Food Preparation	3
X 1301 0153	Food and Man	3
X 1301 0182	Nutrition	3
X 1301 0252	Organization and Management of Food Service Systems	3
X 1301 0253	Quantity Food Purchasing and Production	3
X 1301 0254	Food Service Equipment	3
X 1301 0353	Advanced Food Production	3
X 1301 0409	Professional Practicum	8-12

Administrative Sciences

U 0502 0201	Fundamentals of Accounting I	3
U 0502 0202	Fundamentals of Accounting II	3
U 0501 0231	The Management Process	3
U 0509 0241	The Marketing Process	3
U 0509 0261	Legal Environment of Business I	3
U 0501 0316	Human Resource Management OR	
7 2001 0270	Industrial and Organizational Psychology	3
U 0502 0407	Accounting Systems and Data Processing	3

Science

R 1907 0107	College Chemistry I	3
R 1907 0130	Organic Chemistry	4
Q 0401 0242	Human Biology	3
Q 0401 0250	Applied Microbiology	3

III. Required Collateral Courses

3 2204 0101	Principles of Economics: Macro	3
3 2204 0102	Principles of Economics: Micro	3
7 2201 0100	General Psychology I	3

IV. Electives	18-22
-------------------------	-------

Concentration in Home Economics Education

Joan Bernstein, Coordinator

This curriculum prepares students to be educators in diversified learning environments, such as public schools, adult programs, cooperative extension and business. Graduates receive New Jersey certification to teach Home Economics K-12 and are provided with a foundation for advanced study in specialized areas of Home Economics.

II. Program Requirements

semester hours

X 1301 0120	Clothing Construction	3
X 1301 0122	Clothing and Culture	3
X 1301 0140	The Family: An Interdisciplinary Approach	3
X 1301 0141	Interpersonal Relations	3

X 1301 0150	Principles of Food Preparation	3
X 1301 0160	Equipment in the Home	3
X 1301 0182	Nutrition	3
X 1301 0201	Introduction to Home Economics Education	3
X 1301 0214	Child Development I	3
X 1301 0255	Meal Management	3
X 1301 0260	Human Shelter	3
X 1301 0271	The Family: Contemporary Needs & Issues II	3
X 1301 0298	Textiles	3
X 1301 0435	Consumer Action	3
	Home Economics Elective	3
III.	Required Collateral Courses	
7 2001 0101	General Psychology I	3
Economics		3
Anthropology or Sociology		3
IV.	Electives	0

TRANSFER STUDENTS

Careful planning enables a student to transfer to the Department of Home Economics at Montclair State College without loss of credit. Potential transfer students should examine carefully the list of required courses in the selected major. Any student who plans to transfer for the junior year should write for suggestions or preferably call the Home Economics Department for a conference before the start of the sophomore year.

Home Economics

Course Descriptions

X 1301 0100 Professional Orientation

Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings, for exposure to the breadth of professional opportunities. 2 s.h.

X 1301 0120 Clothing Construction

Applying fundamentals of clothing construction while using commercial patterns. 3 s.h.

X 1301 0122 Clothing and Culture

Clothing selection in terms of cultural, social, psychological and economic influences; clothing choices related to individual needs; color, design, fabric and accessories. 3 s.h.

X 1301 0140 The Family—An Interdisciplinary Approach

Basic insights and concepts from the social sciences used to study the history and structure of the family; its place as a basic but changing institution in modern America. 3 s.h.

X 1301 0141 Interpersonal Relations

Relevant and up-to-date information about significant human relationships throughout the life cycle. Traditional and contemporary forms of dating, courtship, sexual behavior and marriage. 3 s.h.

X 1301 0150 Principles of Food Preparation

Food selection, purchasing and preparation; principles involved in preparation of standard products. 3 s.h.

X 1301 0153 Food and Man

World food patterns; diverse ways in which man provides for and attaches meaning to his food; nutritional problems in the United States and the world; nutritional significance of a changing food supply. 3 s.h.

X 1301 0160 Equipment in the Home

Principles and resources involved in the selection, use and care of equipment in the home. 3 s.h.

X 1301 0182 Nutrition

The nutrients in food, their functions in the human body, and diet requirements for people in various age groups. 3 s.h.

X 1301 0201 Introduction to Home Economics Education

Curriculum design and methodology in all areas of Home Economics education. Field experience; visits to K-12, Extension, Businesses with home economics education programs followed by analysis. 3 s.h.

Prerequisite: X 1301 0100

X 1301 0205 Women in Contemporary Society

Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women. 3 s.h.

X 1301 0214 Child Development I

The preschool child (2-5 years); the major challenges confronting him as he masters the task of socialization. Supervised observation and participation with groups of preschool children. 3 s.h.

Prerequisite: 7 2001 0101.

X 1301 0215 Infant Development

The infant as a developing individual within the family. Theory and research in the area of human infancy; cognitive and emotional growth during the first two years of life. 3 s.h.

X 1301 0216 Techniques for the Study of Child Personality

Skills and tools to help the teacher become more aware of the needs, motivations, competencies and values of young children. Opportunities to observe and record children's activities. 3 s.h.

Prerequisite: X 1301 0214.

X 1301 0220 The Textile and Clothing Industry

An in-depth study of factors which spur progress, affect supply and demand, and ultimately the consumer. The history, economic structure and patterns of production, distribution and marketing of textile and clothing industries. 3 s.h.

X 1301 0221 Fabrics for the Consumer

Consumer needs and interests in the textile area. Products of the soft goods industries; distinctions, uses and care of materials in apparel and household fabrics. 3 s.h.

X 1301 0226 Advanced Clothing Construction

A conceptual approach to problems in custom dressmaking. Projects develop a better understanding of fabric characteristics, selection of appropriate construction techniques and suitability of fashion to the individual. 3 s.h.

Prerequisite: X 1301 0120 or equivalent.

X 1301 0231 Family Economics

The family as an economic unit in society. Economic behavior of various subcultures, age groups and family patterns. 3 s.h.

X 1301 0248 Family Relations

The family life cycle; typical issues, emotional patterns and developmental tasks of late adolescence; courtship, adjustment in marriage, pregnancy, child rearing; later stages of parenthood and old age. Students' own relationships, values and sex roles discussed and compared with facts and trends of American society. 3 s.h.

X 1301 0252 Organization and Management of Food Service Systems

Principles of management; organizational structure, policy and decision-making; the menu in management, budgeting and cost control; sanitation and safety; personnel policies and management. 3 s.h.

Prerequisite: U 0502 0201, Funds. of Accounting I.

X 1301 0253 Quantity Food Purchasing and Production

Determining needs, purchasing, storing, preparing and serving food in large volume. 3 s.h.

Prerequisite: X 1301 0252 and X 1301 0255. X 1301 0254 may be taken concurrently.

X 1301 0254 Food Service Equipment

Selection of equipment based on needs of the food service system. Purchasing procedures. 3 s.h.

Prerequisite: X 1301 0252. X 1301 0253 may be taken concurrently.

X 1301 0255 Meal Management

Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available. 3 s.h.

Prerequisites: X 1301 0150 and 0182.

X 1301 0260 Human Shelter

The housing needs of today's families from an economic, social and psychological premise. The organization of living space, selection and use of materials to meet the needs of the family throughout the life cycle. 3 s.h.

X 1301 0265 Interior Design

The selection, organization and evaluation of furnishing for the residential environment related to everyday life and individual needs. Design elements of line, form, light, color, texture and ornament in relation to interior space. 3 s.h.

X 1301 0270 The Family: Contemporary Needs and Issues I

X 1301 0271 The Family: Contemporary Needs and Issues II

Ways in which families of different compositions and socio-economic levels solve problems relating to needs and issues: food, shelter, financial protection; leisure time, consumer responsibility and changing roles. Not open to freshmen. 6 s.h.

X 1301 0282 Community Nutrition

The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutritional problems. Field studies and group projects. 3 s.

Prerequisite: X 1301 0182.

X 1301 0298 Textiles

Selection and buying of textiles for clothing and household purposes; fibers, fabrics and finishes. Consumer education and factors relating to durability, uses, care, costs and textile economics. 3 s.

X 1301 0300 Field Trip Experiences in Home Economics

An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers. 1 s.

X 1301 0301 Volunteer in the Community

The role of the volunteer solving the socio-economic-civic-educational problems facing individuals and families; volunteer participation as an individual and in groups. 2-4 s.h.

X 1301 0302 Nutrition Education Techniques

Procedures and techniques for teaching nutrition to youth and adults; individual, group and mass methods. 3 s.h.

Prerequisite: X 1301 0182 or equivalent.

X 1301 0304 Introduction to Research

Helps students become aware of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Opportunity for individual groups to plan and execute a small empirical inquiry. 3 s.h.

Prerequisite: 30 credits in Home Economics.

X 1301 0306 Management in the Secondary School Curriculum

Identifying managerial competencies and integrating them into the home economics curriculum. 2 s.h.

Prerequisite: X 1301 0270, 0271.

X 1301 0307 Vocational Education

Principles and practices of vocational education including history, development, organizations and objectives; observations in vocational education programs. 2 s.h.

X 1301 0308 Independent Study

Advanced areas of home economics not offered in the regular curriculum. 1-3 s.h.

Prerequisite: Junior or senior standing.

X 1301 0309 The Teaching of Home Economics

Curriculum development; materials and teaching strategies appropriate to home economics. To be taken the semester prior to student teaching. 0829 0410 Field Experience in Education must be taken concurrently. 3 s.h.

X 1301 0314 Child Development II

The psychological needs of the child; practices of care and guidelines of young children. Feelings, attitudes and values in the management of specific behavioral patterns. 3 s.h.

Prerequisite: X 1301 0214.

1301 0315 Field Experiences in Family and Child Services

Planned supervised experiences in selected agencies offering services for families and children. 3 s.h.

Prerequisite: 30 hours of Family and Child Studies courses.

1301 0317 Creative Experiences in Early Childhood

Direct experiences in the areas of art, music and science for the pre-schooler. 3 s.h.

Prerequisite: Junior or senior standing.

1301 0318 Program Planning in Early Childhood Education

Principles of curriculum development for planning pre-school programs. 3 s.h.

Prerequisite: X 1301 0214. To be taken the semester prior to student teaching.

0829 0410 Field Experience in Education must be taken concurrently.

1301 0319 Language and Literature for Young Children

The qualities of children's expression through language; books, stories and poems; criteria for evaluating material for the pre-school program. Not open to freshmen.

3 s.h.

X 1301 0320 Historical Analysis of Costume

The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.

3 s.h.

X 1301 0322 Field Visits to Clothing and Textiles Firms

Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise. Permission of instructor required.

1 s.h.

X 1301 0323 Fabrics and Fashion

Fiber, yarn, construction and finish related to product potential and to satisfying consumer needs and purposes. Fashion materials including feather, fur and lace; textile goods such as floor coverings, household linens and children's apparel. 3 s.h.
Prerequisite: X 1301 0298 or X 1301 0221.

X 1301 0331 Money Management

The role and meaning of money in individual and family living; income as a means of acquiring a style of life; the effective control of income in spending, saving, credit purchases and providing for future needs. Not open to freshmen.

3 s.h.

X 1301 0335 Consumers and the Market

The consumer perspective of the marketplace; advertising, selling practices, promotion, warranties, etc., as they affect the acquisition of goods and services. Not open to freshmen.

3 s.h.

X 1301 0342 Family Sociology

Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society; the impact of rapid social change on the American family. Not open to freshmen.

3 s.h.

X 1301 0345 Sex Roles in a Changing World

Sex role development and stereotypes that exist in our society and cross-culturally.
Prerequisite: X 1301 0141 or 0248.

3 s.h.

X 1301 0353 Specialized Food Production

Opportunity to study selected problems in food production at various types of food service operations. Menu planning for special events; a study of terminology; and techniques utilized in specialized areas of food production.

3 s.h.

Prerequisite: X 1301 0253.

X 1301 0357 Experimental Foods

Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.

3 s.h.

Prerequisites: R 1905 0107, 0130 and X 1301 0150.

X 1301 0370 Individual and Family Problem-Solving

Dealing with daily living through increased competence in decision-making and problem-solving in a variety of life styles. Not open to freshmen.

3 s.

X 1301 0384 Nutrition in Developing Countries

Nutritional problems; factors which contribute to malnutrition; effect of undernutrition and malnutrition; methods of assessing nutrition status of a population and application of measures for improvement.

3 s.

Prerequisite: X 1301 0182.

X 1301 0389 Advanced Nutrition

The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of men; evaluation and interpretation of research findings.

3 s.

Prerequisite: X 1301 0182, Human Biology Q 0401 0242, R 1905 0435.

X 1301 0400 Senior Seminar

The role of professional home economists in meeting contemporary societal needs; problems of entry into the field. 1 s.h.
Prerequisite: Senior standing.

X 1301 0402 Adult Education in Home Economics

For home economics interested in teaching adults in school, community and extension programs; understanding the adult learner and developing appropriate programs and teaching strategies. Observations in adult education programs. 3 s.h.
Prerequisite: X 1301 0309.

X 1301 0403 Consumer Education Techniques

Curriculum development, teaching strategies, resources and materials related to teaching consumer education. 3 s.h.
Prerequisite: X 1301 0435 or equivalent.

X 1301 0404 Evaluation in Home Economics

The philosophy, purpose and variety of techniques for gathering and weighing evidence; evaluating home economics programs and their objectives. Students may focus on local, state and federal programs and their special accountability processes. 3 s.h.
Prerequisite: X 1301 0309.

X 1301 0405 Home Economics in the Middle School

Philosophy and organization of home economics in the middle school. Supervisory techniques and curriculum development examined as a basic for designing courses. Prerequisite: Classroom or student teaching experience. 3 s.h.

X 1301 0406 Occupational Education in Home Economics

Field experiences in programs where home economics skills are applied to wage-earning. Curriculum development, roles of the home economist occupational teacher-coordinator, and supervision of students enrolled in wage-earning programs. Prerequisite: X 1301 0309. 3 s.h.

X 1301 0407 Teaching Family Living in the Public Schools

Subject matter and strategies for teaching family living as an integral part of the home economics curriculum. 3 s.h.
Prerequisite: One course in family relations, X 1301 0309.

X 1301 0408 Workshop in Home Economics

Opportunity to study selected current problems in the field of home economics. 3 s.h.

X 1301 0409 Professional Practicum

Opportunity to work as a trainee with a professional home economist in business, a community agency or an organization. 8-12 s.h.
Prerequisite: Senior standing.

X 1301 0414 Organization and Management of Child Care Centers

The basic principles of supervision and administration as applied to developing a sound program in a modern pre-school program. The learning process as applied to the professional development of staff; the organization and administration; of individual classrooms as well as the total school program; and the relationship of the school to community services and agencies. 3 s.h.
Prerequisite: X 1301 0214 or equivalent; junior or senior standing.

X 1301 0415 The Child in the Community

The attitudes, mores and values of family and neighborhood life as determinants of the child's adaptation to school; growing up in families of deviant patterns; specialists and agencies in the community.

3 s.h.

Prerequisite: X 1301 0214; junior or senior standing.

X 1301 0418 Parent Education

Establishing a positive team approach between the parent and teacher; parent-teacher interaction; how the teacher interprets parental anxieties, and conducts individual conferences and group meetings.

3 s.h.

Prerequisite: X 1301 0214 and 1 course in family area; junior or senior standing.

X 1301 0419 Special Studies in Family and Child Services

Exploring special concerns in the area of family life and child development.

3 s.h.

Prerequisite: 30 hours in family and child studies courses.

X 1301 0422 Draping

Design principles and fabric properties, figure types, and fashion interest; draping fabric on a three-dimensional body and form for interpretation of design.

3 s.h.

Prerequisite: X 1301 0120.

X 1301 0424 Tailoring

The concepts, procedures and skills of custom tailoring; techniques of fine as well as speed processes; comparing and evaluating custom and factory-made garments.

Prerequisite: X 1301 0120.

3 s.h.

X 1301 0426 Flat Pattern Design

Flat pattern design in developing original designs for apparel. A basic pattern is used to execute designs related to the use of fabric on a human form.

3 s.h.

Prerequisite: X 1301 0120.

X 1301 0435 Consumer Action

The market place as a social, psychological and economic institution serving families; trends and current issues which affect the quality of goods and services.

Prerequisite: 3 2204 0101 or 0102.

3 s.

X 1301 0444 The Social Challenge of Aging

The change over the adult life span as it affects family interaction and resources of various subcultures; implications for social policy and institutions relative to an increasing aging population.

3 s.

Prerequisite: One course in the family area.

X 1301 0445 The Inner City Family

Sub-cultures residing in large cities; the impact of urbanization, ethnicity, social and economic institutions; problems which families encounter. Community contact part of the course.

3 s.

Prerequisite: Junior or senior standing.

X 1301 0448 Family Counseling

Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.

3 s.

Prerequisite: 30 semester hours in Family and Child Studies courses or Consumer Affairs programs.

X 1301 0456 Research in Foods

Scientific method in the design and execution of experimental food studies and the interpretation and evaluation of results. Independent laboratory research.

3 s.

Prerequisite: X 1301 0357.

X 1301 0471 Time Management

Time as a dimension of life related to values in social systems and subcultures; changing demands and pressures on time; an analysis of personal time use. 3 s.h.
Prerequisite: X 1301 0270 or X 1301 0370.

X 1301 0488 Diet Therapy

The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal. 4 s.h.
Prerequisite: Q 0401 0250 Applied Microbiology and 0242 Human Biology; 1301 0389; R 1905 0270.

X 1301 0489 Externship in Foods and Nutrition

A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community. 3 s.h.
Prerequisites: X 1301 0282; X 1301 0253; X 1301 0302; X 1301 0389; X 1301 0488 or permission of instructor.



Industrial Education and Technology

Professor: Earl

Associate Professors: Olsen, Chairman; Dyrenfurth, Van Benschoten

Assistant Professors: Browning, Dorner, Goodall, Greenwald, Kozak,
Nelsen, Rehorn, Schumm, Walencik

Instructors: Goodall Healy

The department offers a Bachelor of Science degree in Industrial Education and Technology (State of New Jersey certification, K-12). The department also offers certification in Vocational-Technical Education and post-baccalaureate Industrial Arts.

Industrial Education is a comprehensive fifty-hour major, providing technical experience through exposure to all curriculum areas; students select two for depth study. The areas of specialization include design, drafting, graphic arts, woods, plastics, metals, electronics and power. Students are encouraged to gain industrial experience during their college years. Credit is given for industrial experiences in the summer.

Industrial Education and Technology courses are identified by the department prefix 0990. The prefix 0839 indicates professional courses in the Industrial Education and Technology teacher education major.

Industrial Education and Technology Major

I. Professional Sequence

II. Requirements

		semester hours
Y 0990 0110	Foundations of Design	3
Y 0990 0120	Graphic Communications	3
Y 0990 0130	Graphic Arts Communications	3
Y 0990 0140	Foundations of Industry-Woods	3
Y 0990 0250	Foundations of Industrial Plastics	3
Y 0990 0260	Foundations of Industry-Metals	3
Y 0990 0270	Electricity Fundamentals	3
V 0990 0280	Power Systems and Energy Sources	3
V 0839 0301	Technology and Culture: Past, Present and Future	3
V 0839 0302	Curriculum and Teaching of Industrial Education	3

III. Industrial Education Electives (2 areas minimum) 23

IV. Free Electives 13-22

VOCATIONAL-TECHNICAL TEACHER EDUCATION PROGRAM . . . This program offers courses and advisement for students wishing certification to teach vocational-technical subjects in secondary schools. Candidates must certify high school graduation or equivalency, experience in the trade, industrial occupation or profession to be taught, and approved training in that field. The program offers professional education, general background courses and supervised in-service teaching.

Industrial Education and Technology

Course Descriptions

Y 0990 0110 Foundations of Design

Creativity, brainstorming, problem-solving and analysis-consideration; application to practical problems in designing with materials. 3 s.h.

Y 0990 0120 Graphic Communications

Knowledge, skill, graphic method, execution of technical drawing and impact of automation. 3 s.h.

Y 0990 0130 Graphic Arts Communication

Major printing processes. Use of type, composition, proofing, imposition, platen press, screen process and basic lithography. 3 s.h.

Y 0990 0140 Foundations of Industry—Woods

Wood product industries: emphasis on lumber industry, hand and machine tool operation and basic finishing processes. 3 s.h.

Y 0990 0250 Industrial Plastics

Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety. 3 s.h.

Y 0990 0251 General Plastics and the Consumer

A fundamental general education course offered for non-majors, only concerned with the selection, utilization, service and repair of selected groupings from the many plastic products available for consumer use. Stress is placed upon how products are made, how to maintain them, and how to repair them if necessary. 3 s.h.

Y 0990 0252 Plastics Crafts

An elementary course in the use of Plastics as a craft media for recreational, avocational and vocational interests. 3 s.h.

Y 0990 0260 Foundations of Industry—Metals

Concepts and processes involving metallic materials through laboratory experiences. 3 s.h.

Y 0990 0270 Electricity Fundamentals

Basic concepts of electricity and their application in the world. 3 s.h.

Y 0990 0280 Energy Sources and Power Conversion Systems

A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience. 3 s.h.

Y 0839 0301 Technology and Culture: Past, Present, and Future

A chronological study of technology and its impact on world culture. Emphasis on the influence of the Western Hemisphere during the last 300 years and the world of the future. 3 s.h.

Y 0839 0302 Curriculum and Teaching of Industrial Education

Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation. 3 s.h.

Y 0990 0307 Technical Writing

Preparation of technical material for publication. Prior registration requested. 3 s.h.

Y 0990 0321 Industrial Drafting

Concepts, principles, skills of contemporary industrial practices and processes. 3 s.h.

Y 0990 0322 Technical Illustration

Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration. 3 s.h.

Y 0990 0331 Letterpress Reproduction

Fundamentals of letterpress printing. Emphasis on historical development, layout,

type styles, type cases, spacing, composition, proofing, lock-up, imposition, manual and automatic press operation. 3 s.h.

Y 0990 0332 Screen Process Reproduction

Screen process printing and elementary line photography; hand-cut films, photographic films and process. 3 s.h.

Y 0990 0333 Black & White Photography

Photographic processes of continuous tone photography. Darkroom construction; chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs. 3 s.h.

Y 0990 0341 Machine Woodworking

Shaping wood materials by portable and machine operations; maintenance, jig and fixture design. 3 s.h.

Y 0990 0342 Cabinet Construction

All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets. 3 s.h.

Y 0990 0343 Home Maintenance and Repair

A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques. 3 s.h.

Y 0990 0351 Plastic Molding and Processing

Manipulative processes; injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety. 3 s.h.

Prerequisite: Y 0990 0250.

Y 0990 0352 Plastic Forming and Processing

Manipulative processes; extrusion, blow molding and thermoforming. 3 s.h.
Prerequisite: Y 0990 0250.

Y 0990 0361 Machine Metal Technology

Machine metalwork; layout, machining and control laboratory activities. 3 s.h.

Y 0990 0362 Machine Tool Technology

Machine tool concepts, processes and applications. Gear cutting, tracer lathe and experimental machining techniques. 3 s.h.

Y 0990 0363 Metal Casting Technology

Contemporary industrial metal casting techniques. Laboratory activities. 3 s.h.

Y 0990 0365 Cold Metal Forming

A study of industrial processes as related to sheet metal fabrication, wrought metals and metalsmithing. 3 s.h.

Y 0990 0371 Electronic Fundamentals

Circuit conditions; analysis of electronic concepts, theoretically and experimentally 3 s.h.

Y 0990 0372 Electron Tubes and Semi-conductors

Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions. 3 s.h.

Prerequisite: Y 0990 0371.

Y 0990 0380 Basic Automotive Mechanics

Electronic diagnosis of auto engines, associated manipulative skills. Brakes-lights, front end and suspension systems. 3 s.h.

Y 0990 0381 Automotive Engines and Power Trains

Detailed engine operation, engine component design criteria and service procedures. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials. 3 s.h.

Prerequisite: Y 0990 0280 or permission of the instructor.

Y 0990 0382 Automotive Fuel and Electrical Systems

Operation, maintenance, testing and servicing of fuel system, ignition systems and electrical systems. Emission control devices studied in conjunction with carburetion. 3 s.h.

Prerequisite: Y 0990 0381 or permission of the instructor.

Y 0990 0383 Automotive Suspension Systems and Brakes

Maintenance and service of drum and disc brakes and suspension systems. Study of various suspension systems, wheel balancing techniques systems and automotive air conditioning. 3 s.h.

Prerequisite: Y 0990 0280 or permission of instructor.

Y 0990 0385 Motorcycle Technology—General Education

Areas of study will include selection, operating and maintaining a motorcycle. Some specific lessons will include: adjusting chains, tune up, solving electrical problems and engine rebuilding. 3 s.h.

Y 0990 0399 Recreation Crafts

Crafts in recreation will be studied in relation to program development, materials, supplies and equipment. Craft experiences will include wood, metal, jewelry, plastic, leather, and carving. 3 s.h.

Y 0990 0400 Power Tool Maintenance

A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands on activity. Emphasis will be given to the development of preventative maintenance systems. 3 s.h.

Prerequisite: All required lab courses or consent of the instructor.

Y 0990 0405 Historical Perspectives of American Industries—Field Study

A study of selected clusters of industry with an emphasis on the historical development of technology. The course is intended to contribute to the understanding of our technical society and to appeal both to majors and non-majors. The program will consist primarily of visitations to sites representative of past and contemporary American industries. 3 s.h.

/ 0990 0405 Cooperative Education in Industrial Education and Technology

The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the Office of Cooperative Education, is responsible for completing the terms of a predetermined learning contract. 8 s.h.

Prerequisites: Completed 60 S.H. of which 30 must be in major. Cumulative average of 2.50 with a 3.00 G.P.A. in major.

0990 0406 Independent Study in Industry I, II or III

Individual study problem with faculty guidance and sponsorship. Application required. Can be repeated three times. 1-3 s.h. ea.

Prerequisite: Permission of the department.

Y 0839 0408 In-service Supervised Teaching Seminar

For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required. 8 s.h.

Y 0990 0408 Field Studies of Industry

Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry. 2 s.h.

Y 0990 0409 Cooperative Industrial Work Experience I, II or III

Study of the industrial world through the skills, attitudes and knowledge of working. Available summers only, by prior registration. Can be repeated three times, if experience is different or in depth. Open to all college students. 2 s.h.

Y 0991 0409 Internship in Industrial Education and Technology

The internship offers the student an opportunity to work as a trainee with professionals in industry, organizations and/or agencies. 8 s.h.

Prerequisites: 60 S.H. of which 30 must be in major. 3.00 overall G.P.A. and 3.00 G.P.A. in major.

Y 0990 0411 Design in Industry

Designers' approach to design products applicable to mass production techniques.

Prerequisite: Y 0990 0110. 3 s.h.

Y 0990 0422 Engineering Graphics

Exploration of descriptive geometry with orthographic projection; system identification of 3D data for applied engineering problems. 3 s.h.

Y 0990 0423 Architectural Design

Basic aesthetic, functional and structural design; residential and light building structure. Environmental control, lighting, wiring, waste and utility systems. 3 s.h.

Y 0990 0431 Offset Lithography

Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork. 3 s.h.

Y 0990 0432 Advanced Offset Lithography

Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densimetric control. 3 s.h.
Prerequisite: Y 0990 0431.

Y 0990 0433 Color Photography

Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densimetric control. 3 s.h.

Prerequisite: Y 0990 0333.

Y 0990 0434 Color Separation

Color separation in graphic reproduction. Light, color films, sensitivity, masking color correcting, color proofing, stripping, exposure controls, densimetric measurements, screens, screen angles and press operation. 3 s.h.

Prerequisite: Y 0990 0433.

Y 0990 0441 Wood Technology

Origins, developments and advances in woods and properties, manufacturing processes and occupational information. 3 s.h.

Y 0990 0442 Residential Construction

Residential construction materials and processes. 3 s.h.

Prerequisite: Y 0990 0342.

Y 0990 0451 Plastics Processing Technology

Advanced technology in injection, compression, transfer and epoxy molding; extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application. 3 s.h.

Prerequisite: Y 0990 0250 or Y 0990 0351 or 0352 or permission of instructor.

Y 0990 0452 Plastics Mold and Form Design, Development and Construction

An advanced course in plastics centered on product design and production with great emphasis placed upon the design, development and construction of molds, forms, jigs and fixtures. 3 s.h.

Prerequisite: Y 0990 0250, 0260, 0140 or permission of instructor.

Y 0990 0453 Plastics: A Directed Study

An advanced course in the study of plastics centered on research and development with emphasis placed upon experimentation and exploration. 3 s.h.

Prerequisite: Y 0990 0250 and permission of instructor.

Y 0990 0461 Manufacturing and Production Technology

Mass production techniques. Market analysis, manufacturing and production control. 3 s.h.

Y 0990 0466 Welding Technology

Working knowledge of arc and gas welding. Provides New Jersey Welding Certificate upon successful completion. 3 s.h.

Y 0990 0471 Electronic Circuit Applications

The effect of characteristic change on basic electrical circuits. 3 s.h.

Y 0990 0472 Industrial Electronic Circuits

Complex industrial and commercial circuit application through theoretical analysis and laboratory experimentation. 3 s.h.

Y 0990 0473 Introduction to Logic Machines

Computes and mentors: effect on industry and society, construction and operation. 3 s.h.

Y 0990 0482 Fluid Power

Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently-used components and circuitry. 3 s.h.

Prerequisite: Y 0990 0280 or permission of instructor.

Y 0990 0483 Fluidics

Fluidic devices and systems. Computation, logic and control. 3 s.h.

/ 0990 0484 Alternative Energy Conversion Systems

Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include: oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion. 3 s.h.

Prerequisite: Y 0990 0280 or permission of instructor.

/ 0990 0485 Wind Energy Conversion Systems

Theoretical and practical applications of electrical and mechanical energy systems derived from wind generating equipment and accessories. Wind machines will be examined from both the historical and contemporary perspective with respect to utilization and design characteristics of horizontal and vertical axis wind generators. 3 s.h.

Y 0990 0490 Jewelry and Lapidary

Jewelry and lapidary processes, design and materials.

3 s.h.

Y 0990 0491 Construction Technology

Introduction to a systems approach to teaching about the construction segment of industrial technology.

3 s.h.

Y 0990 0492 Manufacturing Technology

Introduction to systems approach to teaching about the manufacturing segment of industrial technology.

3 s.h.

Y 0990 0493 Directed Study in Jewelry

An in-depth study of one of four areas (Wrought Metal, Enameling, Casting, Lapidary) to be chosen at time of registration. The course may be taken twice for a total of six (6) credits.

3 s.h.

Prerequisite: Y 0990 0490 or permission of instructor.

Y 0990 0495 Industrial Education for the Elementary Grades

Developing activities and methods for including industrial education experiences designed to provide an integrative approach to elementary education.

3 s.h.

Y 0990 0496 American Heritage Skills

Home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas.

3 s.h.

Y 0990 0497 Historical Restoration

A field experience in the restoration, moving and/or construction of historically significant structures. Students will participate in all phases of the restoration undertaken. Historic significance, architectural style and design, construction methods and materials are studied.

1-9 s.h.

Prerequisite: Preregistration with instructor required.

Y 0990 0498 National/International Work Study in Technology

An international field experience in technology. Students will participate in a specific construction or technical assistance project with a national or international agency or group.

1-9 s.h.

Prerequisite: Preregistration with instructor required.

Y 0990 0499 Recreation Crafts

Recreation crafts in relation to program development, materials, supplies and equipment.

3 s.h.

Y 0998 0401 Principles and Philosophy of Vocational-Technical Education

A brief history of the social, economic, and technical forces which stimulated the development of Vocational-Technical Education; organization and function of the State and Federal Division of Vocational Education and significant trends and developments.

3 s.i.

Y 0998 0402 Curriculum Construction in Vocational-Technical Education

Practical skills utilized in the design and construction of Vocational-Technical Curriculums; relationships between related and laboratory curriculum content.

3 s.

Y 0998 0403 Methods of Teaching Vocational-Technical Subjects

Methods of teaching, based on Vocational-Technical Education objectives, will include selection of subject matter, selection of text books and other source materials; starting a class, preparing individual and sequential lessons, organizing demonstrations, using teaching aids, developing instructional materials, record keeping and evaluation of pupil progress.

3 s.

**Y 0998 0404 Instructional Material Development in Vocational-Technical Education**

Designed to assist the Vocational-Technical Teacher to develop teaching aids of functional value to their field; opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

3 s.h.

Y 0998 0408 Vocational-Technical In-Service Supervised Teachings and Seminar

This is a two-part course which covers an academic year. The first part, involves the student in a bi-weekly seminar and on-the-job supervision by the seminar instructor. The second part, provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

8 s.h.

Y 0998 0409 Vocational Guidance

Designed to acquaint teachers in Vocational-Technical Education with the guidance program, and to assist them in the guidance functions of classroom and shop. 3 s.h.

DEPARTMENT OF PHYSICAL EDUCATION

Professors: Wacker, Chairman; Tews

Associate Professors: Arnold, DeRosa, Ferris, Horn, Lucenko, Schleede

Assistant Professors: Desiderioscioli, Crossman, McConnell, Toth

Instructors: Reiken, Taigia

The Department of Physical Education, a member of the Panzer School Council, offers programs in:

Physical Education

Physical Education and Health

The specific objectives are:

1. to develop those traits, qualities, and characteristics which will enable a student to function effectively as an individual, in his area of professional specialization and as a member of his community.
2. to supply leadership in programs of physical education, athletics and recreation for schools, camps, playgrounds, recreation centers and other agencies.
3. to provide a broad program of physical activity so that all students in the college can develop and understand physical education values, develop skills for use in leisure hours and derive physical fitness and recreational benefits.
4. to offer all students opportunities for expression through participation in physical activities.

Physical Education Major

I. Requirements	51
Z 0837 0101 Health for Personal Living	3
Z 0835 0110 Aquatics or 0111 Lifesaving or 0112 WSI	1
Z 0835 0113 Men's Gymnastics & Tumbling	2
Gymnastic Elective	2
Z 0835 0114 Women's Gymnastics & Tumbling	2
Z 0835 0132 Wrestling	1
Z0835 0140 Movement Education & Rhythm	1
Two Team Sports	2
Z 0835 0220 Physiology of Exercise	2
Z 0835 0221 Kinesiology	2
Z 0835 0222 Basic Motor Learning	2
Z 0835 0224 Camping and Outdoor Education	2
Z 0835 0235 P.E. Activities for Elementary School	2
Z 0835 0351 Adapted Physical Education	3
Z 0835 0352 Dev. Philosophy & Principles of P.E.	3
Z 0835 0355 Measurement & Evaluation in P.E.	2
I 1008 0240 Modern Dance	1
Individual & Dual Sport Electives	4
Dance Elective	1
Physical Education Electives	16
II. Free Electives	7
III. Professional Seq. for Teacher Ed. Certification	4
A. Prior to Student Teaching	1
7 2001 0101 Human Growth & Development	1
7 2001 0200 Educational Psychology	1
Ed. Elective: Jr. Field Experience	1
Z 0835 0317 Teaching of Physical Education	1

B. Professional Semester	13
Teacher School Society	3
Student Teaching	8
Senior Field Experience	1
Seminar	1

Professional Laboratory Experience Requirement

Each student is required to make two visitations in each of five activity courses for a total of ten visits to be completed in the first two years. The observations may be in any course in the curriculum categories of Team Sports, Individual and Dual Activities, or Rhythm and Dance, and Physical Education for the elementary school.

Requirements for B.A. Degree and Certification to Teach Physical Education and Health Education

I. General Education	36
(see Bulletin for details)	
II. Free Elective	2
III. Communication Requirement	0-9
(see Bulletin for details)	
IV. Physical Education	1
Anyone of the team sports you take in your major program will meet this requirement.	
V. Professional Sequence	24
(See Pg. 45 for details)	
VI. Specialization Physical Education and Health Education	56

Physical Education and Health Major

I. Requirements		
Z 0837 0101	Health for Personal Living	3
Z 0835 0110	Two Team Sports of Choice	2
Z 0835 0113	Aquatics or 0111 Lifesaving or 0112 WSI	1
Z 0835 0114	Men's Gymnastics & Tumbling	1
Z 0835 0114	Women's Gymnastics & Tumbling	1
Z 0835 0132	Gymnastics Elective	2
Z 0835 0140	Wrestling	1
Z 0835 0220	Movement Education and Rhythm	1
Z 0835 0221	Physiology of Exercise	2
Z 0835 0222	Kinesiology	2
Z 0835 0224	Basic Motor Learning	2
Z 0835 0235	Camping & Outdoor Education	2
Z 0835 0351	P.E. Activities for Elementary School	2
Z 835 0352	Adapted Physical Education	3
Z 0835 0355	Dev., Phil., & Principles of P.E.	3
I 1008 0240	Measurement & Evaluation in P.E.	2
Z 0837 0210	Modern Dance	1
Z 0837 0220	Individual & Dual Sport Electives	4
Z 0837 0240	Dance Elective	1
Z 0837 0305	Physical Education Elective	5
Z 0837 0310	Consumer Health	3
Z 0837 0310	Mental Health	3
Z 0837 0240	Foundations of Environmental Health	3
Z 0837 0305	Communicable Diseases	3
Z 0837 0310	Chronic Degenerative Diseases	3
Z 0837 0315	Community Health	3
		Select one
		Select two

Z 0837 0411	The School Health Program	3	Select
Z 0837 0413	The Drug Abuse Program.....	3	one
Z 0837 0290	Human Sexuality	3	
Z 0837 0401	Teaching of Health.....	3	
REQUIRED TOTAL		58	

Completion of the above program qualifies the student for the combined certificate to teach physical education and health.

Students who desire separate certificates (one to teach physical education and one to teach health education) must complete the total approved college curriculums for each of these majors.

II. Professional Sequence..... 24

Physical Education Course Descriptions

Z 0835 0101 Field Hockey

Individual skill development in hockey; analysis, team tactics, offensive and defensive strategy and rules; practical application in game situations. 1 s.h.

Z 0835 0102 Soccer

The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented. 1 s.h.

Z 0835 0103 Women's Basketball

Learning experiences in the skills and techniques of basketball; rules, offensive and defensive team strategy. 1 s.h.

Z 0835 0104 Women's Softball

Skills, techniques, rules and concepts of team play and strategy essential to this sport; playing the game. 1 s.h.

Z 0835 0106 Men's Baseball and Softball

Methods, theory, skill testing and class organization for effective teaching of baseball and softball.

Z 0835 0107 Men's Basketball

Methods, theory, skill testing and conditioning procedures. 1 s.h.

Z 0835 0108 Football

The history, development and present status of the sport; basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation. 1 s.h.

Z 0835 0110 Aquatics

For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions. 1 s.t.

Z 0835 0111 Lifesaving

Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men. 1 s.t.

Prerequisites: Must be able to: 1. perform standing front dive 2. swim 440 yd continuously using various strokes; 3. dive from surface to minimum depth of six feet and swim 15 feet underwater; 4. tread water one minute.

Z 0835 0112 Water Safety Instructor

This course follows the standards and procedures for certification by the American Red Cross. 1 s.h.

Prerequisite: A current A.R.C. Senior Life Saving Card.

Z 0835 0113 Men's Gymnastics and Tumbling

Develop skill in tumbling and gymnastics and demonstrate an understanding of skill. Levels appropriate for all grade levels. Safety measures concerning the equipment and spotting. 2 s.h.

Z 0835 0114 Women's Gymnastics and Tumbling

To develop skill in tumbling and gymnastics and demonstrate an understanding of skill levels appropriate for elementary and high school grades. Safety measures concerning equipment and spotting. 2 s.h.

Z 0835 0115 Lacrosse

History, development and present status of the sport; developing basic skills and learning game strategy, rules and specific techniques of class organization, safety and evaluation. 1 s.h.

Z 0835 0116 Volleyball

The student is provided with the history, development, and present status of the sport. Analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety, and evaluation. 1 s.h.

Z 0835 0120 Bowling

The history, rules, techniques, strategies, terminology and rules are discussed and students attend classes at bowling alleys for practical experience. 1 s.h.

Z 0835 0122 Golf

To permit students to attain the minimum skill necessary for teaching this individual type of game. 1 s.h.

Z 0835 0124 Badminton

A comprehensive analysis of the techniques and skills of each sport; current trends, rules, terminology, equipment and game strategy. 1 s.h.

Z 0835 0126 Archery

The development and present status of archery; basic skills, tournament strategy and rules. 1 s.h.

Z 0835 0128 Fencing

The history, rules, skills, progression and teaching techniques of fencing presented to physical education majors. 1 s.h.

Z 0835 0130 Tennis

The development and present status of this sport; basic skills, learn game strategy and rules. 1 s.h.

Z 0835 0131 Fitness Activities

A sound developmental program designed both for the individual who is below par in strength or physical capacity and for the conditioned individual. 1 s.h.

Z 0835 0132 Wrestling

The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation. 1 s.h.

Z 0835 0133 Men's Track and Field

Techniques of performance for teaching all track and field activities commonly

performed in high schools (if time permits, cross-country, performance and scoring will be covered). 1 s.h.

Z 0835 0134 Women's Track and Field

Technique for performance and analysis of all areas of track and field activity as well as cross-country. 1 s.h.

Z 0835 0140 Movement Education and Rhythm

Recognizing and developing one's own innate capacity for natural, coordinated movement. Theory, material and methods for the developing of correct movement and rhythm in the elementary and secondary schools. Creativity will be encouraged and percussion instruments and other median will be used for accompanying movement. 1 s.h.

Z 0835 0141 American Folk and Square Dance

Skills and teaching methods in folk and square dance. The student will also experience calling a square dance. 1 s.h.

Z 0835 0142 European Folk Dance

Traditional dances of foreign countries, such as Denmark, Sweden, Germany, England and Poland; the culture, costuming and historical basis of dances. 1 s.h.

Z 0835 0143 Social Dance

Traditional as well as modern forms of ballroom dancing. Opportunities to teach, to plan formal and informal dances. Courtesies and social standards are also covered.

1 s.h.

Z 0835 0150 Principles and Practices of Emergency Care

A lecture and practice course designed to acquaint the student with first-aid procedures and the prevention of accidents or sudden illness on the field or in the gymnasium; American Red Cross standards. 2 s.h.

Z 0835 0201 Advanced Field Hockey

Advanced skills and team strategies. Analysis of skills, actual teaching experience, selection and care of equipment. 1 s.h.

Prerequisite: Z 0835 0116.

Z 0835 0203 Advanced Women's Basketball

An analysis of the individual skills of basketball; game concepts, instructional techniques and basic team strategies. 1 s.h.

Prerequisite: Z 0835 0106.

Z 0835 0204 Advanced Women's Softball

Advanced skills and team strategies. Theory, skills and concepts of the game in a practice situation. 1 s.h.

Prerequisite: Z 0835 0116.

Z 0835 0216 Advanced Women's Volleyball

Advanced skills, various offensive and defensive strategies; advanced team play. Practice procedures, formation, techniques and evaluative criteria with regard to class organization. 1 s.h.

Prerequisite: Z 0835 0102.

Z 0835 0220 Physiology of Exercise

The physiological effects of activity upon the human organism; the reaction of exercises of speed, strength and endurance upon the circulatory, respiratory and muscular systems; the causes of fatigue, staleness and exhaustion. 2 s.h.

Prerequisite: Anatomy & Physiology.

Z 0835 0221 Kinesiology

Analysis in depth of the anatomy of the skeletal and muscular systems; the physical principles of movement and the anatomical derivation of motion; utilizing this knowledge in teaching and coaching. 2 s.h.

Prerequisite: Anatomy & Physiology.

Z 0835 0222 Basic Motor Learning

The physical and psychological factors related to motor learning in physical education activities; the role of the teacher in facilitating motor skill equipment. 2 s.h.

Z 0835 0223 Basic Prevention and Care of Athletic Injuries

Introduction to aspects of sports medicine which are necessary to the safe conduct of sports. The physiological and medical bases of treatment, management procedures and skills in the application of treatment. Medical and safety problems, protective equipment and facilities, training techniques, and nutrition and diet. For men and women; lecture as well as training room experience. 3 s.h.

Z 0835 0224 Camping and Outdoor Education

This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education; introduction to recreational (individual and small group), and organized camp. 2 s.h.

Z 0835 0226 Coaching—Principles and Problems

A practical guide to ethics, principles and organizational problems of coaching. Provides the beginning coach with the information necessary to help him deal effectively with common problems of athletic competition. 3 s.h.

Z 0835 0227 Sport in the Sociocultural Process

A macro-analysis of sport in society, dealing with sport and physical activity as a sociological phenomenon, emphasizing the heritage of sport in America and abroad, socio-economic dimensions of sport and minorities in sport. 3 s.h.

Z 0835 0232 Rhythms for Elementary School Children

Materials and methods for teaching various rhythms to elementary school children; fundamental movements, singing games, creative movements, routines to music with ropes, balls, exercises, wands, hoops, lummi sticks and formation of a rhythm band. 1 s.h.

Z 0835 0234 Dance for the Elementary School

Theory, materials and methods for teaching dance in an elementary physical education program. 1 s.h.

Z 0835 0235 Physical Education Activities in the Elementary School

To provide the student with information concerning the physical, social, intellectual and emotional characteristics of the elementary school child, and the selection and teaching of appropriate non-sport activities in physical education. 2 s.h.

Z 0835 0240 Gymnastics for Elementary School

The methods and materials in Gymnastics for elementary schools through a sensorimotor approach to learning and performance. 2 s.h.

Prerequisite: Z 0835 0112 or Z 0835 0113.

Z 0835 0241 Men's Gymnastics for Secondary Schools

Methods and materials in gymnastics for secondary school physical education. The organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics. 2 s.h.

Prerequisite: Z 0835 0113.

Z 0835 0242 Women's Gymnastics for Secondary School

Methods and materials in gymnastics applicable to teaching in the secondary school. Methods of teaching on tumbling and apparatus work. 2 s.h.
Prerequisite: Z 0835 0112.

Z 0835 0301 Coaching of Field Hockey

Concepts and organizational procedures for coaching field hockey; skills, offensive and defensive strategies and rules. 2 s.h.
Prerequisite: Z 0835 0101.

Z 0835 0303 Coaching Women's Basketball

Coaching basketball at all levels of competition. Individual advanced skills, team strategies and educationally sound coaching techniques. 2 s.h.
Prerequisite: Z 0835 0106.

Z 0835 0304 Coaching of Women's Softball

Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules. 2 s.h.
Prerequisite: Z 0835 0116.

Z 0835 0306 Coaching of Men's Baseball

Individual skills and team techniques of coaching baseball; administration and organization of practice sessions for effective learning. 2 s.h.
Prerequisite: Z 0835 0115.

Z 0835 0307 Coaching Men's Basketball

The offensive and defensive strategy of basketball; rules and techniques of officiating, and their application. 2 s.h.
Prerequisite: Z 0835 0107.

Z 0835 0308 Coaching Football

Techniques and methods of coaching football with emphasis on team play: offensive and defensive method—for running, passing and kicking game. Complete organization of a football game. 2 s.h.
Prerequisite: Z 0835 0105.

Z 0835 0309 Coaching of Men's Soccer

The fundamental concepts of coaching soccer on the interscholastic level; physiological and psychological effects of participation. 2 s.h.
Prerequisite: Z 0835 0109.

Z 0835 0310 Coaching Swimming and Diving

Practical knowledge of coaching swimming and diving; coaching theory, the perfecting of skills and conditioning procedures. 1 s.h.

Z 0835 0312 Aquatic Art

The creative development of strokes, stunts, and styles of swimming utilized in aquatic art. Patterns, formations, staging, costuming, selection of music and conditioning and training techniques. 2 s.h.

Z 0835 0313 Men's Competitive Gymnastics in Schools

For the student who desires to become a special teacher or coach of advanced gymnastics. The terminology of the sport, training methods, current trends in requirement for performance, organization and the FIG rules. Methods of teaching and the application of sound safety procedures. Advanced gymnastics examined critically in the light of physiological and mechanical factors. 2 s.h.
Prerequisite: Z 0835 0113.

Z 0835 0314 Competitive Women's Gymnastics in Schools

Coaching competitive gymnastics: Women's gymnastics, dance in gymnastics

training methods on the four Olympic events, techniques and skill analysis. 2 s.h.
 Prerequisite: Z 0835 0112.

Z 0835 0317 Coaching of Volleyball

Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach. 2 s.h.
 Prerequisite: Z 0835 0102

Z 0835 0322 Coaching of Golf

Methods and techniques of coaching golf; medal and match play strategy. The organization of a complete golf program; drills, fundamental strokes, rules and etiquette. 2 s.h.
 Prerequisite: Z 0835 0122.

Z 0835 0323 Advanced Prevention and Care of Athletic Injuries

Designed to provide the student with in-depth information and practical experience in prevention, care and rehabilitation of athletic injuries. Individuals selecting this course should be preparing to become certified trainers (NATA). 3 s.h.
 Prerequisites: Z 0835 0314 Basic Prevention & Care of Athletic Injuries and permission of the instructor.

Z 0835 0330 The Coaching of Tennis

The techniques and methods of coaching tennis; strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strokes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and inter-school competition. 2 s.h.
 Prerequisite: Z 0835 0130.

Z 0835 0332 Coaching of Wrestling

The techniques and methods of coaching wrestling; developing programs, mat tactics and strategy. 2 s.h.
 Prerequisite: Z 0835 0219.

Z 0835 0333 Coaching of Track and Field

Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities. 2 s.h.
 Prerequisite: Z 0835 0113 or 0229.

Z 0835 0340 Fitness and the Aging Process

The physiological, emotional and social changes experienced by the older adult and he/she moves through the aging process. The student will be helped to assess fitness needs based on these findings and to select appropriate activities. Field trips and observations of older adult activities will also be included.
 Prerequisites: 0401, 0240, 0241 Anatomy & Physiology; 0835 220. 4 s.h.

Z 0835 0351 Adapted Physical Education

A lecture and participation course covering the philosophy and goals of adapted physical education for children with handicaps. A minimum of 3 hours per week of clinical experience in schools, clinics and/or hospitals is required. 3 s.h.
 Prerequisite: Kinesiology.

Z 0835 0352 Development, Philosophy and Principles of Physical Education

History and development from primitive to modern times. Principles of physical education in the light of scientific knowledge, aims and objectives; the place in the total educational program. May not be taken until the junior year. 3 s.h.

Z 0835 0353 Psychology of Sport

Sychology related to physical activity: on emotional, attitudinal and personality

aspects. Motivation, cultural and sociological problems of athletes; spectator response and deportment. 2 s.h.

Z 0835 0355 Measurement and Evaluation in Physical Education

Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. 2 s.h.
Prerequisite: Open to Juniors and Seniors only.

Z 0835 0357 The Teaching of Physical Education

Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment. 4 s.h.

Prerequisite: Open only to Juniors and Seniors.

Z 0835 0358 Organization and Administration of Physical Education

Legislation, financing, plant facilities, care and purchase of supplies and equipment, office management and records, intramural programming and tournaments, and conduct of varsity sports. Taken after all junior-level work has been completed. 2 s.h.

Z 0835 0359 Organization and Administration of Athletics

For those who expect to become teachers, supervisors and directors of physical education. Athletic eligibility, management, equipment, records, intramural programming and tournaments, awards, finances, budgets, safety, maintenance, planning of facilities, junior and senior high school athletics, and current athletic trends. 2 s.h.

Z 0835 0361 Physical Activity for Emotionally Handicapped

Identifying the levels of emotional handicaps experienced by children; understanding psychological and social needs. Activities suitable for meeting the needs of these children. 2 s.h.

Z 0835 0362 Physical Activity for the Mentally Handicapped

Current practices, problems, legislation and financing of programs for the mentally retarded; developing a physical activity program to meet the needs of the educable and trainable mentally retarded. 2 s.h.

Z 0835 0363 Physical Activity for the Sensory Handicapped

Provides information concerning the needs of those with sensory handicaps and some understanding concerning their social and psychological needs and present materials in physical education activities suitable for each handicap. 2 s.h.

Z 0835 0375 Foundations and Practices in Cardiac Rehabilitation

Knowledge and skills related to cardiac rehabilitation which is necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course. 3 s.h.

Prerequisites: 0401 0240, 0241 Anatomy & Physiology; Physiology of Exercise, and permission of instructor.

Z 0835 0379 Internship in Athletic Training

For the student interested in becoming certified as a trainer (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. Meets the NATA requirement for field experience. Available to students not completing the student teacher expereince only.

Prerequisites: 0835 0150, 0223, 0323, and permission of the instructor. 4 s.h.

Z 0835 0380 Internship in Physical Education

Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On

he-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student-teacher sequence only. 8 s.h.
 Prerequisite: Minimum of 60 s.h. completed.

Z 0835 0381 Cooperative Education in Physical Education

Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a department faculty coordinator is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student-teacher sequence only. 8 s.h.
 Prerequisites: 60 s.h. completed, 2.45 G.P.A., 2.67 major G.P.A. or permission of instructor.

Z 0835 0492 Selected Topics in Physical Education

A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized. 3 s.h.
 Prerequisite: For undergraduate seniors and graduate students only.

Z 0835 0399 Independent Study in Physical Education

Provides an opportunity to pursue independent study in one of the specialized areas of physical education. 1-6 s.h.

Non-Major Theory Courses

Z 0879 0200 Intermediate Swimming

Designed for the confident swimmer requiring more and different swimming skill and strokes. 1 s.h.

Z 0879 0203 Golf

1 s.h.

Z 0879 0204 Ethnic & Cultural Aspects of Physical Activity

This course will involve the student in study of ethnic style, philosophy and culture of international dance; the development of folk festivals; a study of folklore arts of geographical areas; a study of and experimentation with unusual recreational and sport activities from other countries. The development of performance skills will be a part of the course. 2 s.h.

Z 0879 0227 Anatomical and Physiological Foundations of Coaching

Designed for the non-physical education major who desires to coach athletics. 3 s.h.

Z 0879 0228 The Mechanics of Athletic Performance

Designed for the non-physical education major who is interested in athletic coaching. 3 s.h.

Prerequisite: Z 0835 0220 Anatomical and Physiological Foundations of Coaching.

Z 0879 0250 Beginning Swimming

For the non-swimmer and non-deep water swimmer, for purposes of developing skill, and deep-water confidence. 1 s.h.

Z 0879 0251 Aerobic Activities

1 s.h.

Z 0879 0252 Archery

1 s.h.

Z 0879 0253 Gymnastics

1 s.h.

Z 0879 0257 Weight Training and Conditioning

1 s.h.

Z 0879 0258 Beginning Tennis

1 s.h.

Z 0879 0260	Beginning Riding	1 s.h.
Z 0879 0261	Fencing	1 s.h.
Z 0879 0262	Volleyball	1 s.h.
Z 0879 0263	Jogging	1 s.h.
Z 0879 0265	Figure Skating	1 s.h.
Z 0879 0266	Skiing	1 s.h.

Z 0879 0267 Advanced Swimming

This course is designed for men and women who have at least a minimum amount of knowledge and skill to move comfortably in deep water.

1 s.h.

Z 0879 0268	Bicycling	1 s.h.
Z 0879 0269	Badminton	1 s.h.
Z 0879 0270	Folk and Square Dance	1 s.h.
Z 0879 0271	Social Dance	1 s.h.
Z 0879 0272	Bowling	1 s.h.
Z 0879 0274	Scuba Diving	1 s.h.
Z 0879 0275	Beginning Karate Self-Defense	1 s.h.

Z 0879 1275 Advanced Karate Self-Defense

To develop a higher understanding in the art of karate, to participate in interclu competition, to teach philosophy of the Oriental Arts and its relationship to karate and to explain and teach beginning "Kata" form movements of karate dealing with multiple attack differences are specific objectives of the course.

1 s.h.

Prerequisite: Z 0879 0275 or by special permission of instructor.

Z 0879 0278 Yoga: Principles and Practices

Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with.

1 s.h.



Recreation Professions Program

A major in Recreation Professions is offered through an Interdisciplinary Program, with concentrations in Commercial Recreation, Community and Municipal Recreation, Outdoor Recreation, Recreation Therapy and a General Recreation option.

The objective of the program is to prepare students for professional service as effective recreation and leisure services supervisors and administrators. Knowledge and skill are developed in working with both human and physical resources. The program is also designed to prepare students for graduate work in recreation and park administration.

Curricula are intended to provide:

1. The administrative and supervisory skills essential for mid-management or management positions in the public, quasi-public, or private sectors.
2. The capacity to understand and work effectively in an interdisciplinary setting.
3. Decision-making skills requisite for contemporary management.
4. The ability to deal effectively in the present while anticipating future leisure trends.
5. Confidence and professional experience through successful career internship.

Commercial Recreation

Commercial recreation prepares students interested in owning, managing or working in profit-oriented recreation ventures such as resorts, country clubs, amusement parks, hotels and related settings.

Community and Municipal Recreation

Community and municipal recreation prepares students for supervising and administering local public, voluntary, and private recreation and leisure services agencies and organizations.

Recreation Therapy

Recreation therapy prepares students for positions in community-based and institutional medical settings.

Outdoor Recreation

Outdoor recreation provides preparation for professional service in national, state and local parks, forests, camps, and related outdoor settings.

General Recreation

The general recreation option provides students with exposure to at least three of the above areas of concentration. It is primarily designed to meet the needs of those students who have not decided upon a particular area of specialization.

The student who selects this latter option augments the major core with a selection of fifteen credits, taking five 3-credit courses from at least three areas of concentration. At least three of these five courses must be Recreation Professions D849) offerings.

Field Experience

Recreation Professions majors participate in practical field experience by interning in their own respective areas of specialization.

An Honors Internship option is available to those seniors who have a 3.0 Grade Point Average in the major by the end of their junior year and show particular promise of becoming outstanding recreation and leisure services professionals.

Although extensive exposure in the field is an integral part of the entire curriculum, it is this culminating internship which is most responsible for tying together the academic experience with professional application.

Required Collateral Courses

Students expecting to major in the Program should plan to take the collateral requirements in Health, Physical Education, Psychology and Anthropology or Sociology during their first year(s), in preparation for the professional sequence and area of concentration in the latter years of college.

The following collateral courses are required of all Recreation Professions majors and may be drawn from either General Education Requirements or Free Electives: Z 0835 0150 Principles and Practices of Emergency Care; W 0837 0101 Health for Personal Living; 7 2001 0101 General Psychology I: Growth and Development; and 3 s.h. of Anthropology, Psychology or Sociology. Note: Z 0835 0150 may be used only as a free elective and W 0837 0101 may not be used in the common core.

Recreation Professions Major

	semester hours
I. Basic Core Requirements	39
Z 0849 0260 Recreation and Leisure Services.....	3
Z 0849 0280 Recreation Leadership.....	3
Z 0849 0331 History and Philosophy of Recreation and Leisure Services	3
Z 0849 0344 Programming for Leisure.....	3
Z 0849 0350 Outdoor Recreation Planning	3
Z 0849 0356 Recreation for People With Disabling Limitations	3
Z 0849 0362 Management of Recreation and Leisure Services.....	3
Z 0849 0481 Field Experience in Recreation Professions	3
(Above course may be substituted with 0849 0482, Honors Internship in Recreation and Leisure Services, 8-12 s.h., by those students who meet the qualifying criteria.)	
One course from each of the following four groups:	
Group 1 (Any course from this group meets P.E. requirement)	
Z 0849 0201 Lifetime Sports	2
Z 0849 0202 Recreational Team Sports	2
Z 0849 0206 Aquatics in Recreation	2
Group 2	
Z 0849 0203 Outdoor Recreation Skills	
Z 0849 0204 Winter Outdoor Recreation Skills	
Z 0849 0205 Spring Outdoor Recreation Skills	
Group 3	
U 0501 0315 Organizational Behavior	
U 0501 0316 Human Resource Management	
(Z 0849 0362 meets prerequisite requirements for above two courses)	
Z 0509 0343 Promotion and Persuasion	
(7 2001 0101 and 3 s.h. of Anthropology, Psychology, or Sociology meet prerequisites for above course)	
Group 4	
7 2001 0255 Environmental Psychology	
7 2001 0335 Social Psychology	
8 2208 0406 Sociology of Small Groups	
II. Areas of Concentration.....	
15 semester hours from one of following concentrations:	
A. Commercial Recreation	
Z 0849 0425 Commercial Recreation and Leisure Services	
Z 0849 0427 Delivery of Commercial Recreation Services	

U 0501 0433 Entrepreneurship and Innovation 3

Select 6 s.h. from the following with approval of faculty advisor:

U 0501 0335 Small Business Management	3
U 0501 0439 Business Policy	3
U 0509 0441 Consumer Motivation	3
U 0509 0446 Marketing Strategies	3
U 0506 0491 Business Problems.	3
Y 0990 0499 Recreation Crafts	3
X 1301 0335 Consumers in the Market.	3
4 2201 0204 Principles of Land Use	3

B. Community and Municipal Recreation

Z 0849 0423 Public Recreation and Leisure Services.	3
Z 0849 0445 Special Events Planning and Promotion	3
Z 0849 0461 Community and Public Relations in Recreation	3

Select one of the following groups of courses:

Group 1

Z 0835 0320 Recreational Needs of Urban Society.	3
(Above course meets Minorities Culture Course Requirement)	

and one of the following:

Y 0990 0499 Recreation Crafts	3
6 2207 0304 State and Local Government.	3
6 2207 0305 Introduction to Public Administration	3
6 2207 0310 Public Personnel Administration	3
6 2207 0311 Governmental Budgeting.	3
6 2207 0315 Urban Administration	3

Group 2

Z 0849 0424 Voluntary Recreation and Leisure Services.	3
---	----------

and one of the following:

Z 0990 0499 Recreation Crafts	3
X 1301 0445 The Inner City Family	3
1 2202 0404 Urban Anthropology.	3
6 2207 0304 State and Local Government.	3
8 2208 0308 Sociology of Constructive Voluntary Action	3
8 2208 0309 Voluntary Organizations in American Life	3

C. Outdoor Recreation

Z 0849 0410 Implementation of Outdoor Recreation Programs	3
Z 0849 0416 Recreation Areas and Facilities Operations	3
T 1914 0220 Conservation of Natural Resources	3

Select 6 s.h. from the following with approval of faculty advisor:

4903 0461 Humanities and the Environment	3
4903 0462 Field Techniques for Teaching the Humanities.	3
Y 0990 0433 Color Photography	3
Y 0990 0496 American Heritage Skills	3
Y 0990 0499 Recreation Crafts	3
T 1914 0320 Contemporary Problems in Conservation of Natural Resources.	3
T 1914 0325 Environmental Geology	3
T 1914 0410 Geology of New Jersey	3
4 2206 0204 Principles of Land Use	3
4 2206 0331 Urbanization and Environment	3
4 2206 0404 Geo-ecology	3
4 2206 0411 Problems in Urban Geography	3
4 2206 0423 Culture and Resource Utilization	3
4 2206 0424 Geography of New Jersey	3
4 2206 0462 People and Cities: Comparative Urban Studies.	3

W 4922 0400	Designing Learning Environments	3
W 4951 0404	Outdoor Teaching Sites for Environmental Education	3
D. Recreation Therapy		
Z 0849 0373	Recreation and Rehabilitation Services	3
Z 0849 0472	Recreation Therapy	3
W 0837 0460	Systems of Health Care Delivery (W 0837 0101 and Z 0849 0356 meet prerequisites for above course)	3

Select 6 s.h. from the following with approval of faculty advisor:

G 0831 0310	Group Art Therapy and Creativity Development
Z 0835 0301	Adapted Physical Education
Z 0835 0321	Physical Activity For Emotionally Handicapped
Z 0835 0322	Physical Activities for the Mentally Handicapped
Z 0837 0310	Chronic and Degenerative Diseases
Z 0837 0445	Perspectives on Death
Y 0990 0499	Recreation Crafts
H 1017 0160	Introduction to Music Therapy I
H 1017 0261	Introduction to Music Therapy II
H 1017 0460	The Use of Recreational Music in Therapy
X 1301 0444	The Social Challenge of Aging
7 2001 0303	Psychosocial Aspects of Aging
7 2001 0320	Psychology of the Handicapped
7 2001 0325	Psychology and Education of the Gifted
7 2001 0328	Abnormal Psychology
8 2202 0404	Urban Anthropology
8 2202 0413	Medical Anthropology
8 2208 0211	Sociology of Health and Illness

E. General Recreation

Select five (5) courses from at least three (3) areas of concentration. At least 3 of the 5 courses must be Recreation Professions (0849) courses.

III. Recreation Professions Electives

Select 9 semester hours from following courses:

Z 0849 0201	Lifetime Sports
Z 0849 0202	Recreational Team Sports
Z 0849 0203	Outdoor Recreation Skills
Z 0849 0204	Winter Outdoor Recreation Skills
Z 0849 0205	Spring Outdoor Recreation Skills
Z 0849 0206	Aquatics in Recreation
Z 0849 0330	Leisure and Recreation in Society
Z 0849 0353	Cooperative Education in Recreation Professions
Z 0849 0360	Organizational Patterns of Recreation and Leisure Services
Z 0849 0373	Recreation and Rehabilitation Services
Z 0849 0399	Independent Study in Recreation
Z 0849 0410	Implementation of Outdoor Recreation Programs
Z 0849 0414	Recreation Areas and Facilities Planning
Z 0849 0416	Recreation Areas and Facilities Operations
Z 0849 0423	Public Recreation and Leisure Services
Z 0849 0424	Voluntary Recreation and Leisure Services
Z 0849 0425	Commercial Recreation and Leisure Services
Z 0849 0427	Delivery of Commercial Recreation Services
Z 0849 0445	Special Events Planning and Promotion
Z 0849 0461	Community and Public Relations in Recreation
Z 0849 0472	Recreation Therapy
Z 0849 0482	Honors Internship in Recreation and Leisure Services
Z 0835 0320	Recreational Needs of Urban Society (Above course meets Minorities Culture Course Requirement)

Z 0835 0413 Group Interaction in a Recreational Setting	2
V. Free or Collateral Electives	20

Recreation Professions

Course Descriptions

0849 0201 Lifetime Sports

Introduction to fundamental skills, techniques, rules, and materials in various recreational activities which have high potential for life-long participation. Included are archery, bowling, golf and tennis. 2 s.h.

0849 0202 Recreational Team Sports

Introduction to fundamental skills, techniques, rules and materials in various recreational team sports, including basketball, soccer, softball and volleyball. Team, league, tournament and culminating event planning and organization. 2 s.h.

0849 0203 Outdoor Recreation Skills

Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required. (Students may count only one course from Z 0849 0203, 0204, 0205 toward their major.) 2 s.h.

0849 0204 Winter Outdoor Recreation Skills

Taught at the NJ School of Conservation. Emphasizes the development of Outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling and winter survival. If weather is unseasonably cold, substitutes such as rock climbing, orienteering and backpacking will be taught. Special fee includes room, board, and equipment use. (Students may count only one course from Z 0849 0203, 0204, 0205 toward their major.) 2 s.h.

0849 0205 Spring Outdoor Recreation Skills

Field application of the basic skills learned in the fall and new skills based on water sources. Students will be in residence at the NJ School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use. (Students may count only one course from Z 0849 0203, 0204, 0205 toward their major.) 2 s.h.

Prerequisite: Z 0849 0203 or consent of instructor.

0849 0206 Aquatics in Recreation

Fundamental skills, techniques and materials in aquatics activities as utilized in organized programs of recreation and leisure services. Overview of planning, management, and operation policies and procedures. 2 s.h.

0849 0213 Group Interaction in a Recreational Setting

Handling small and large groups of people in a social situation; needs of all age groups; ice-breakers and mixers, seasonal events, active and quiet parties, skits and dances. 2 s.h.

0849 0260 Recreation and Leisure Services

Study of various agencies providing recreation and leisure services. Emphasis on functions, areas, facilities, clientele, and career opportunities. Field visits required. 3 s.h.

0849 0280 Recreation Leadership

Recreation leadership with small and large groups. Emphasis upon appropriate theories and techniques for specific clientele. Course includes 45 hours of recreation leadership in community under professional direction. 3 s.h.

Prerequisite: Completion or concurrent enrollment in required courses in 201-210 series.

Z 0849 0320 Recreational Needs of Urban Society

Survey and evaluation of leisure and recreation as a social force. Recreation history and philosophy in light of changing times; present and future recreational needs and problems of urban society.

3 s.h.

Z 0849 0330 Leisure and Recreation in Society

Analysis and interpretation of the concepts of leisure; its role in individual, community and national lifestyles; its social and economic significance. The role of recreation programs and services in meeting current and future needs of society.

3 s.h.

Z 0849 0331 History and Philosophy of Recreation and Leisure Services

History and development of recreation and leisure services in the U.S.; philosophical bases, current theories and practices; philosophical directions for the future. 3 s.h.

Prerequisite: Z 0849 0260.

Z 0849 0344 Programming for Leisure

Analysis of pertinent factors in planning and evaluating recreation programs; interrelationship of needs and interests of people, community setting, and activity content. Emphasis on program construction and scheduling. 3 s.

Prerequisite: Z 0849 0260 and 0849 0280.

Z 0849 0350 Outdoor Recreation Planning

Nature, significance, scope and trends of outdoor recreation, outdoor recreation planning, policy formation, and administration.

3 s.

Prerequisite: Minimum of one recreation skills course or approval of Program Director.

Z 0849 0353 Cooperative Education in Recreation and Leisure Services

Integration of academic study with supervised employment outside the formal classroom environment. The Cooperative Education experience is supervised by faculty member and an agency/organization supervisor.

8 s.

Prerequisites: Z 0849 0260; 0849 0280; junior or senior standing; 30 s.h. in coursework at MSC, including 15 s.h. in Recreation Professions; 2.0 G.P.A. overall; permission of Director of Recreation Professions Program.

Z 0849 0356 Recreation for People with Disabling Limitations

Adaption of recreation and leisure services for persons with special needs limitations; role of institutions and community agencies; specialized leaders techniques; modification requirements for areas, facilities, equipment, and supplies. Field visits required.

3 s.

Prerequisite: Z 0849 0260 and Z 0849 0280; completion or concurrent enrollment in 8 2208 0211 Sociology of Health and Illness recommended.

Z 0849 0360 Organizational Patterns of Recreation and Leisure Services

Organizational patterns and legal aspects of public, private, commercial and voluntary agencies offering organized recreation programs or leisure services at national, regional, state or local levels. Field visits required.

3 s.

Prerequisites: Z 0849 0260; concurrent enrollment in 0849 0331 recommended.

Z 0849 0362 Management of Recreation and Leisure Services

Principles, practices and procedures in administration and supervision of recreation and leisure services; emphasis on program and personnel supervision, budgeting, facility management and maintenance, community relations. Field visits required.

3 s.

Prerequisites: Z 0849 0280 and Z 0849 0360; U 0506 0231 The Management Process, or U 0506 0315 Organizational Behavior or 6 2207 0305 Introduction to Public Administration recommended.

Z 0849 0373 Recreation and Rehabilitation Services

Study of the roles, procedures, and interrelationships of professional personnel in the rehabilitation services in medical and correctional settings. The team approach to rehabilitation services will be emphasized. Field visits required. 3 s.h.
Prerequisite: Z 0849 0356.

Z 0849 0399 Independent Study in Recreation Professions

Independent study in area of student need and/or interest pertinent to Recreation Professions. Interested students must present detailed written proposal to Director of Recreation Professions Program for approval and determination of credit allocation. 1-3 s.h.

Prerequisite: Junior or senior standing.

Z 0849 0410 Implementation of Outdoor Recreation Programs

Supervisory considerations in the provision of outdoor recreation areas, facilities, personnel and program services. Emphasis upon appropriate clientele services in rural and natural settings. 3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280, Z 0849 0350.

Z 0849 0414 Recreation Areas and Facilities Planning

Determination of recreation area and facility needs and types appropriate for organized recreation and leisure services agencies. The planning process and important considerations including principles, standards, guidelines and evaluation techniques. Property selection and acquisition process. Design process and plan preparations. Utilization and modification of existing areas and facilities. Operation and maintenance considerations. 3 s.h.

Prerequisite: Z 0849 0260 and Z 0849 0280.

Z 0849 0416 Recreation Areas and Facilities Operations

Functions of federal, state, and local park areas and facilities operations, including utilization, maintenance and evaluation. Field visits required. 3 s.h.

Prerequisite: Z 0849 0260.

Z 0849 0423 Public Recreation and Leisure Services

Roles of federal, regional, state and local governmental agencies providing recreation and leisure services, history, characteristics, legal bases, functions, and nature of services provided. Field visits required. 3 s.h.

Prerequisite: Z 0849 0362.

Z 0849 0424 Voluntary Recreation and Leisure Services

Analysis of the roles of various voluntary and private associations, clubs, youth-serving agencies, special interest associations, and employee recreation. Emphasis upon nature and functions of these agencies and organizations. Field visits required. 3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280.

3 s.h.

Z 0849 0425 Commercial Recreation and Leisure Services

Analysis of the types of commercial and resort recreation enterprises currently operating; probable trends and directions; problems associated with commercial recreation ventures; possible employment opportunities. Field visits required. 3 s.h.

Prerequisite: Z 0849 0260.

Z 0849 0427 Delivery of Commercial Recreation Services

Requirements and procedures for organizing and implementing commercial recreation services. Field visits required. 3 s.h.

Prerequisite: Z 0849 0425

Z 0849 0445 Special Events Planning and Promotion

Considerations involved in production and promotion of special events that involve

large and diverse publics, budgeting, special facilities and equipment, legal considerations, transportation and crowd management. Field visits required. 3 s.h.
Prerequisite: Z 0849 0362; consent of instructor required for non-majors.

Z 0849 0461 Community and Public Relations in Recreation

Principles, techniques, methods and materials utilized to interpret, promote, and publicize organized recreation and leisure activities through various media and personal contacts. Field visits required. 3 s.h.
Prerequisite: Z 0849 0362.

Z 0849 0472 Recreation Therapy

Philosophy, principles, and techniques in the use of recreation as a treatment modality in rehabilitating people with illness or disabling limitations. Role of recreation in total rehabilitation process of various agencies. Field visits required. 3 s.h.
Prerequisite: Z 0849 0356.

Z 0849 0481 Field Experience in Recreation

Supervised work experience at leadership or supervisorial level in approved recreation agency. 400 hours required in field. Several seminar meetings and individual conferences as required. 3-8 s.h.
Prerequisite: approval of program director.

Z 0849 0482 Honors Internship in Recreation and Leisure Services

Directed full-time professional supervisory experience in a recreation agency. Comprehensive exposure to the agency's resources and program. Individual development in program planning, conduct and evaluation; budget and finance; legal aspects; community and public relations. Lecture-discussion 1 hour, a minimum of 40 hours per week at the agency, individual conferences and reports. 8-12 s.h.
Prerequisites: Senior standing; minimum GPA of 3.0 in major; completion of core and professional focus requirements; above average rating in Z 0849 0280 or upon recommendation of recreation or leisure agency administrator; completion of a course work for graduation recommended.



New Jersey School of Conservation

Professor: Kirk, Director

Assistant Professors: Schierloh, Assistant Director; Kelly

Instructors: Ford, Merritt

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Arts and Sciences. The 240-acre facility is located in Stokes State Forest and High Point State Park.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short and long-term learning experiences. These range from two- or three-day programs for 12,000 elementary and secondary school children during 1974-75, to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers—The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's programs are looking toward creating or modifying courses to be offered for Montclair credit through the School. For example, the School of Conservation and the Department of Industrial Education and Technology have developed a course in historical restoration. The School of Conservation also conducts workshops for elementary and secondary school teachers interested in developing proficiencies in teaching environmental concerns, which also earn Montclair graduate credit. The faculty of the School has organized and developed one-day workshops for community action organizations.

Panzer School Council

Dr. Hazel M. Wacker, Chairman

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of Physical Education and Health was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Health at Montclair State College. The College became the custodian and depository of Panzer College records.

With the establishment of the School of Professional Arts and Sciences in 1970, the title Panzer School Council was adopted, reflecting the change in organizational emphasis. Council membership consists of the Chairman of Physical Education, the Chairman of Health Professions, and the Director of Recreation Professions. The Panzer School Council represents the shared interests of the faculties of the Departments involved and coordinates their pertinent and related curricular and co-curricular activities. A major portion of the Council's efforts are actively and generously supported by the Panzer College Alumni Association. Such support takes the form of direct scholarship aid; providing funds for professional conferences, workshops and sports clinics.

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Philip S. Cohen, Dean

Academic Advisors: Gail Feinbloom, M.A., Jose Gorin, M.A., Carl Snipes, M.A.

The School of Social and Behavioral Sciences was formally approved by the Board of Trustees in the spring of 1969. In February of 1970, with student-faculty planning completed, the School was fully organized into the departments of Anthropology, Communication Sciences and Disorders, Economics, Geography, History, Political Science, Psychology and Sociology.

Each department offers at least one major program leading to the Bachelor of Arts degree. By following a professional sequence, students may obtain a teacher certification in social studies, speech correction and other education fields.

In addition to the well-established courses of study, interdisciplinary programs are encouraged within the School and in conjunction with other Schools. Transcultural Studies, for example, bring the disciplines of cultural anthropology, geography and history into a new correspondence. A major interdisciplinary focus in the Sociology and Psychology programs places increasing stress on the humanistic themes in the Social and Behavioral Sciences.

On-going examination of curriculum is intended to strengthen current program and reflect new directions that will prepare students for the careers of the future. B careful planning of free electives and General Education requirements, students can complete two majors or, if they wish, combine one major with a minor in another area. Minor programs are offered by most of the departments within the School.

The cultural and social laboratory of the New York-Newark-Paterson region and our affiliations with schools, hospitals, clinics, municipalities, planning boards and social service agencies in urban and suburban environments provide numerous opportunities for invaluable externship training in the social and behavioral sciences. The School also provides on-campus clinical experiences through the Communication Disorders Center and the Psychoeducational Center.

In its brief history, the School of Social and Behavioral Sciences has established a unique identity based on diversity within a unified, organic whole. Out of its broad spectrum of departments and programs has been effected a structure which embraces a variety of methods, content and organization, each bearing a specific relationship to the other.

SOCIAL STUDIES TEACHER EDUCATION

Students who desire teacher certification in the Social Studies must follow a Professional Sequence including the special methods course:

0899 0401 The Teaching of the Social Studies

Prepares students to meet the problems encountered by the beginning teacher in social studies education on the elementary and secondary school level. 3:0

The Social Studies teacher is expected to have a broad understanding of environmental and cultural factors which shape the individual and his society. To meet the approved program for certification in Social Studies, course work is required in each of the following fields: Anthropology, Economics, Geography, History, Political Science and Sociology. A more detailed description of requirements is available in the office of the School Counselor.

DEPARTMENT OF ANTHROPOLOGY

Professor: Quintana, Chairman

Associate Professor: Flint

Assistant Professors: Boylan, Brook, Cinquemani, Franke, Klein

Instructor: Sacks

Participating Faculty from Other Departments—Professors: Cohen, More

Assistant Professor: Singh

The programs of the Department of Anthropology address themselves to: (1) learning objectivity by studying other peoples; (2) gaining insight by the studies that others make of us; and (3) achieving responsibility by applying the results to our rapidly changing, evolving world (M. Mead). A confluence of disciplines, anthropology is defined as the "science of humans." As such, it is concerned with knowledge of human development and behavior from the beginnings of life to the present, and with the ongoing interaction between biological and cultural evolution. It is unique in its holistic and unifying emphasis, participatory methodologies, and historical/comparative focus. All peoples and all aspects of human life constitute the subject matter of its four basic fields: cultural anthropology; archeology; physical anthropology; and anthropological linguistics. All fields are represented in the department, as well as a real coverage of a wide range of human societies—folk to urban—in virtually all regions of the world.

The major prepares students for advanced work in the discipline, leading to college teaching, museum curatorial work and/or research. Increasingly, the undergraduate major is a prerequisite for admission to graduate programs in anthropology, many of which offer fellowships, scholarships, and teaching assistantships for qualified students.

By providing diversity in departmental offerings, the major also helps prepare students for employment in non-teaching fields—e.g., urban renewal, community service agencies, public health programs, international relations, etc. The departmental apprenticeship program (2202 0402) is designed to provide students with an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. According to interest and background, students are placed in cooperating agencies or museums where they engage in anthropological fieldwork by conducting research and/or special projects.

In addition, majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools where new curriculum trends reflect a rapidly-growing demand for anthropological inputs. For the student undecided about career goals, the major provides an excellent liberal arts background about what humans have been, are and can become.

Anthropology Major

Requirements		semester hours
1 2202 0100	Cultural Anthropology	3
1 2202 0201	Physical Anthropology.....	3
1 2202 0306	Prehistoric Archaeology.....	3
1 2202 0463	Anthropological Linguistics	3
Electives		semester hours
9 semester hours from:		
1 2202 0301	Peoples of Africa.	3
1 2202 0302	Ethnology of Oceania.....	3
1 2202 0303	Peoples of South America & The Caribbean.....	3
1 2202 0304	Peoples of the Soviet Union.....	3
1 2202 0305	The American Indian: Perspectives on Change	3
1 2202 0307	Peoples of Southeast Asia.....	3
1 2202 0309	Peoples of Middle America	3
1 2202 0310	Cultures of the Middle East	3
1 2202 0311	Anthropology of American Subcultures	3

1 2202 0330	Culture in Transition in India	3
1 2202 0406	Peasant Culture.	3
1 2202 0418	Ethnology of African Language and Belief Systems	3
1 2202 0432	Development of Japanese Character & Culture.	3
1 2202 0461	Cultural History of Preliterate Societies.	3
12 semester hours from:		
1 2202 0200	Urban Anthropology	3
1 2202 0308	Primate Ethology.	3
1 2202 0401	Seminar in Anthropological Theory	3
1 2202 0402	Dynamics of Culture	3
1 2202 0403	Dynamics of Human Evolution	3
1 2202 0405	Psychological Anthropology	3
1 2202 0407	Independent Research in Anthropological Theory & Method	3
1 2202 0408	Archaeology of Ancient Middle America	3
1 2202 0409	Anthropology of Religion.	3
1 2202 0411	Field Methods in Archaeology	3
1 2202 0412	Cultural Ecology	3
1 2202 0413	Medical Anthropology	3
1 2202 0414	Selected Issues in Anthropology	3
1 2202 0415	Women in Traditional Society	3
1 2202 0416	Anthropology of Human Reproduction.	3
1 2202 0419	Experimental Archaeology.	3
1 2202 0420	Apprenticeship in Anthropology	6-12
1 2202 0430	Field Methods in Linguistics	3
1 2202 0461	Cultural History of Preliterate Societies.	3
1 2202 0462	People and Cities	3
	REQUIRED TOTAL	3:

Work in supportive areas—e.g., transcultural studies (including non-western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages—is strongly recommended and should be discussed with major advisors.

Anthropology

Course Descriptions

1 2202 0100 Cultural Anthropology

Analysis of transcultural data; basic methodologies, concepts and goals of anthropology; the nature of culture, its role in human experience and its universality.

3 s.

1 2202 0200 Urban Anthropology

The dynamics of acculturation that characterize relationships between urban subcultures and the broader urban community; values, personality, behaviors and other aspects of the adjustment of people whose lifestyle sets them apart from the dominant society.

3 s.

1 2202 0201 Physical Anthropology

The biological basis of human evolution including surveys of human paleontology, primatology and the races of man. The relationship of culture to man's development; lectures, field trips and the use of fossil and audio-visual materials. Field fee \$6.00.

3 s.

1 2202 0301 Peoples of Africa

Diversity in the lifestyles of representative African cultures; prehistory, cultural change, and contemporary problems in Sub-Saharan Africa.

3 s.

1 2202 0302 Ethnology of Oceania

Societies of the Pacific region and their relevance to selected theoretical issues in anthropology; magic and ritual, origins of social stratification, effects of environment on culture, and meaning of kinship systems.

3 s.h.

1 2202 0303 Peoples of South America and the Caribbean

Selected South American and Circum-Caribbean cultures; culture change from prehistoric period to present; relationship to contemporary problems.

3 s.h.

1 2202 0304 Peoples of the Soviet Union

The cultural, political, economic and historical significance of several ethnic and religious identities within the borders of the Soviet Union; Eastern Slavs, Uzbeks, Tartars, Georgians, Estonians and Moldavians.

3 s.h.

1 2202 0305 The American Indian: Perspectives on Change

Amerindian cultures north of Mexico; representative tribes, their world views, and their adaptations to the environment, each other and European contact.

3 s.h.

Prerequisite: 1 2202 0100.

1 2202 0306 Prehistoric Archaeology

The development, method and theory of anthropological archaeology. Analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. Field fee \$5.00.

3 s.h.

Prerequisite: 1 2202 0100.

1 2202 0307 Peoples of Southeast Asia

Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines; recent socio-cultural processes.

s.h.

1 2208 0308 Primate Ethology

The relationship of non-human primate behavior to the origins of human behavior. Consists of two major units: (1) the study of lemurs and monkeys and their ecologies; (2) the study of the great apes and their societies.

3 s.h.

1 2202 0309 Peoples of Middle America

Mexican and Central American groups which show varying degrees of acculturation; aspects of early post-European contact; current cultural development.

3 s.h.

1 2202 0310 Cultures of the Middle East

Introduces students to the Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of "culture" and "society" will be explored in the context of course materials.

3 s.h.

1 2202 0311 Anthropology of American Subcultures

Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S.; emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture.

3 s.h.

2202 0330 Culture in Transition in India

India in its geographical and socio-anthropological setting. Focuses on the nature and processes bringing about transition in traditional values and social institutions.

3 s.h.

2202 0401 Seminar in Anthropological Theory

The development of anthropological theory during the past 100 years. Various subdisciplines of cultural and social anthropology are explored and applied to similar bodies of data.

3 s.h.

Prerequisite: 9 s.h. in Anthropology.

1 2202 0402 Dynamics of Culture

Cultural development, growth, transmission, perpetuation and change. The concept of "future shock" and its implications for folk and urban culture. 3 s.h.
Prerequisite: 1 2202 0100.

1 2202 0403 Dynamics of Human Evolution

Man's evolution to a bipedal animal from his early vertebrate beginnings. The diversity of forms that have led to contemporary man, bio-cultural forces that have influenced change, human ecology and population genetics. 3 s.h.
Prerequisite: 1 2202 0201 or permission of the instructor.

1 2202 0405 Psychological Anthropology (Also listed as 2001 0405)

Transcultural focus on the inter-related nature of culture and human behavior. Inter-disciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. 3 s.h.
Prerequisites: 1 2202 0100, 1 2201 0100 or 1 2201 0101.

1 2202 0406 Peasant Culture

Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Guest lectures by cultural historians. 3 s.h.
Prerequisite: 1 2202 0100 or 1 2205 0102.

1 2202 0407 Independent Research in Anthropological Theory and Method

Directed research towards the preparation of written papers, stressing field work library research and problem orientation. A tutorial without formal class meetings.
Prerequisite: Departmental approval. 3 s.h.

1 2202 0408 Archaeology of Ancient Middle America

Ancient cultures of Middle America, northern Mesoamerica, the Gulf Coast, Oaxacan Central Mexican Aztecs, the ancient Maya of Mexico and Central America. 3 s.h.

1 2202 0409 Anthropology of Religion

Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities: origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture. 3 s.h.

1 2202 0411 Field Methods in Archaeology

Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated. 3 s.h.
Prerequisite: 1 2202 0306.

1 2202 0412 Cultural Ecology

The course will examine the relationships between culture and the bio-physical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures. 3 s.h.

1 2202 0413 Medical Anthropology

Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in the evolution of man. 3 s.h.
Prerequisite: 1 2202 0201 or permission of instructor.

1 2202 0414 Selected Issues in Anthropology

Identification and analysis of contemporary issues and problems in anthropology e.g., conflict and violence; models of society; new directions in anthropological inquiry and methodology; etc. 3 s.h.

Prerequisite: 9 s.h. in Anthropology.

1 2202 0415 Women in Traditional Society

Surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed. 3 s.h.

1 2202 0416 The Anthropology of Human Reproduction

A biocultural study of pregnancy, childbirth, attitudes toward male and female children, sexual development of the newborn to adolescence, sexual maturity and behaviors and attitudes toward human reproduction. 3 s.h.

1 2202 0418 Ethnology of African Language and Belief Systems

Students acquire a working understanding of the ways in which language and belief systems are integrated in African culture. Topics discussed will include language problems in contemporary Africa, African folklore and mythology, ideas of ethnicity, etc. 3 s.h.

1 2202 0419 Experimental Archaeology

The course will cover the manufacture, use, preservation, analysis, and cataloging of prehistoric artifacts made of stone, bone, and wood. 3 s.h.

Prerequisites: 1 2202 0306 or 0411.

2202 0420 Apprenticeship in Anthropology

According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects. 6-12 s.h.

Prerequisite: 24 hours in anthropology, 6 additional hours in the School of Social and Behavioral Sciences.

2202 0430 Field Methods in Linguistics

Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in Linguistics. Prerequisite: Anthropological or General Linguistics. 3 s.h.

2202 0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. 3 s.h.

2202 0461 Cultural History of Preliterate Societies

Multidisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and nondocumentary evidence in reconstructing the culture history of pre- or semi-literate societies. 3 s.h.

Prerequisite: 1 2202 0100 or 1 2205 0102.

2202 0462 People and Cities (Also listed as 1 2205 0462 and 1 2206 0462)

Multidisciplinary and cross-cultural investigation of urbanism and urbanization; the formation, structure and functioning of cities throughout the world. 3 s.h.

Prerequisite: 1 2202 0404, 1 2205 0220, 1 2206 0410 or 1 2208 0306, or permission of instructor.

2202 0463 Anthropological Linguistics

Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems; individual student field experience, readings and lectures. 3 s.h.

Prerequisite: 1 2202 0100 or N 1505 0210.

DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS

Professors: Heiss, Leight, Scholl, Shulman, Woolf

Associate Professors: Balaban, Caracciolo, Schon

Assistant Professors: Attanasio, Chairman; Barden, Bell-Berti, Schiff

Instructors: Gonyo, Lindenman

The undergraduate curriculum in Communication Sciences and Disorders provides a foundation for professional specialization at the Master's level. Students progress through a sequence which emphasizes initially the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

The undergraduate curriculum is designed to prepare students to obtain certification by the New Jersey State Department of Education in speech correction for grades Kindergarten through twelve. To that end, students are required to enter the teacher education program described on pages 45-48 in this catalog.

For most employment in the field of communication disorders, the Master's Degree is a requirement. On completing the undergraduate curriculum, students pursue graduate study and concentrate in speech pathology, audiology, learning disabilities or teaching the deaf and hearing impaired. The undergraduate program in Communication Sciences and Disorders prepares the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association.

Communication Sciences and Disorders Major

Required Courses

	semester hours
2 1220 0100 Fields of Communication Sciences and Disorders
2 1220 0103 Fundamentals of Voice and Speech Production
2 1220 0104 Phonetic Study of Speech Sounds
2 1220 0202 Acquisition of Speech and Language
2 1220 0207 Hearing Science
2 1220 0208 Anatomy and Physiology of the Speech System
2 1220 0209 Voice and Articulation Disorders
2 1220 0210 Development of Communication Skills in Children: Methods and Materials
2 1220 0410 Neurophysiological Disorders of Communication
2 1220 0411 Psychodynamics of Communication Disorders
2 1220 0461 Introductory Practicum in Communication Disorders
2 1220 0462 Intermediate Practicum in Communication Disorders
2 1220 0464 Psychology of Oral Communication
2 1220 0468 Clinical Procedures in Audiology
2 1220 0469 Problems of the Hearing Impaired
2 1220 0473 Organization and Administration of Speech and Hearing Programs
2 1220 0483 Language Disorders of Children

Majors are urged to take 2001 0320, Psychology of the Handicapped to complete the state certification requirements.

Additional electives, suitable for the major in Communication Sciences and Disorders, are offered through the departments of Anthropology, Biology, English, Home Economics, Linguistics, Physics, Psychology and Sociology, and in the School of Education. See catalog listings.

Required Speech Electives

Students are required to select an additional 4 credits of speech electives which should be taken from the following when offered:

2 1220 0200	Techniques in Clinical Observation and Reporting	2
2 1220 0412	Diagnosis of Communication Disorders	3
2 1220 0472	Speech Science and Instrumentation	3
2 1220 0484	Seminar in Problems and Issues in Communication Sciences and Disorders	2
2 1220 0463	Advanced Practicum in Communication Disorders	2

Appropriate elective course(s) given in other departments of the College may be substituted for the required speech electives listed above, with the approval of the Department of Communication Sciences and Disorders.

Majors are urged to take 2001 0320, Psychology of the Handicapped to complete the state certification requirements.

NOTE: *This course fulfills the speech communication requirement.

**This course is taken as part of the teacher education program.

Communication Sciences and Disorders

Course Descriptions

2 1220 0100 Fields of Communication Sciences and Disorders

An orientation: practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties. Field trips to special centers. 3 s.h.

2 1220 0103 Fundamentals of Voice and Speech Production

Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills. 3 s.h.

2 1220 0104 Phonetic Study of Speech Sounds

The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet. 3 s.h.

2 1220 0200 Techniques in Clinical Observation and Reporting

Observing, describing and reporting the behavior of clients with speech, hearing and language problems; the intake interview and parent conferences. 3 s.h.

Prerequisite: 2 1220 0100.

1220 0202 Acquisition of Speech and Language

The development of a first language in the child. Acquisition of syntactic, semantic, pragmatic, and phonological systems studied in a cognitive-linguistic framework.

Prerequisite: 2 1220 0104.

3 s.h.

1220 0207 Hearing Science

Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing. 3 s.h.

1220 0208 Anatomy and Physiology of the Speech System

The anatomical and physiological bases of respiration, phonation and articulation-resonation. 3 s.h.

1220 0209 Voice and Articulation Disorders

Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation. 3 s.h.

Prerequisites: 2 1220 0103, 0104, 0208.

2 1220 0210 Development of Communication Skills in Children: Methods and Materials

The development of oral communication skills in children within basic school curriculum. Speech improvement techniques through storytelling, creative dramatics, choral speaking and oral interpretation; listening activities and content analysis. 3 s.h.

Prerequisites: 2 1220 0104, 0202, 0209.

2 1220 0410 Neurophysiological Disorders of Communication

Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation. 3 s.h.

Prerequisites: 2 1220 0104, 0202, 0208, 0209.

2 1220 0411 Psychodynamics of Communication Disorders

Psychological aspects of communication disorders; the nature, diagnosis and treatment of stuttering in children and adults; the nature of counseling and psychotherapy. 3 s.h.

Prerequisites: 2 1220 0104, 0202, 0209, and at least 6 semester hours in psychology.

2 1220 0412 Diagnosis of Communication Disorders

Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting of case histories. 3 s.h.

Prerequisites: 2 1220 0209, 0410, 0411, 0461.

2 1220 0461 and 0462 Introductory and Intermediate Practicum in Communication Disorders

Supervised clinical practice with children and adults presenting a variety of communication disorders. 3 s.h.

Prerequisites: 2 1220 0209, 0210, 0410, 0411.

2 1220 0463 Advanced Practicum in Communication Disorders

A continuation of 1220 0461 and 0462 providing supervised experience in diagnosis and therapy with more complex and specialized communication disorders. May be taken in the Department's Communication Disorders Center and at other cooperating hospital, rehabilitation and educational facilities. 3 s.h.

Prerequisites: 2 1220 0461, 0462.

2 1220 0464 Psychology of Oral Communication

Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicap. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communication event as well as a goal directed process. 3 s.

Prerequisite: Junior standing.

2 1220 0468 Clinical Procedures in Audiology

The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and education referral. Demonstrations and supervised practice testing. 3 s.

Prerequisite: 2 1220 0207.

2 1220 0469 Problems of the Hearing Impaired

Current theories and practices of speech reading, auditory training, hearing evaluation and educational placement; psychological aspects of hearing loss; interviewing and counseling the parents of the hearing impaired child. 3 s.

Prerequisite: 2 1220 0468.

2 1220 0472 Speech Science and Instrumentation

Basic acoustics; respiration and voice production; acoustics theory of vowel production; consonant acoustics and speech perception. 3 s.h.

Prerequisites: 2 1220 0104, 0208.

2 1220 0473 Organization and Administration of Speech and Hearing Programs

Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals. 3 s.h.

Prerequisites: 2 1220 0209, 0210, 0461.

2 1220 0483 Language Disorders of Children

Strategies for the assessment of language disorders and for the development of intervention programs. 3 s.h.

Prerequisite: 2 1220 0202.

2 1220 0484 Seminar in Problems and Issues in Communication Sciences and Disorders

Independent study and research in selected areas of communication sciences and disorders. Enrollment limited. 2 s.h.

Prerequisite: Departmental approval.



DEPARTMENT OF ECONOMICS

Professor: Kronish

Associate Professors: Desai, Chairman; Reilly-Petrone

Assistant Professors: Flint, Scher

Instructors: O'Neill, Sisik-Leveen, Husbands

A major in economics permits students to specialize in a body of knowledge that is increasingly complex, systematically formulated and operationally significant. The latter refers to the increasing utilization of the skill and competence of the economist not only in the academic world but also in the world of federal, state and local government and in industry and labor organizations.

Economics Major

I. Requirements*		semester hours
3 2204 0101	Principles of Economics (Macroeconomics)	3
3 2204 0102	Principles of Economics (Microeconomics)	3
3 2204 0203	Economic Statistics	3
3 2204 0305	Intermediate Macroeconomic Analysis	3
3 2204 0307	Intermediate Microeconomic Analysis	3
	REQUIRED TOTAL	15

*A student majoring in Economics must choose 18 semester hours from the list of Electives in his specialization. In addition, Math 111-112 or Calculus A is recommended for majors. Prerequisites can be waived with permission of instructor or department head.

II. Electives**

3 2204 0204	Labor Economics	3
3 2204 0205	Collective Bargaining: Theory and Practice	3
3 2204 0213	Economic History of the U.S.	3
3 2204 0222	Economic History of Europe	3
3 2204 0300	World Resources and Industries	3
3 2204 0301	Money and Banking	3
3 2204 0302	Financial Institutions and Policy	3
3 2204 0303	Economic Growth and Development	3
3 2204 0304	Public Policies Toward Business	3
3 2204 0306	Managerial Economics	3
3 2204 0308	Public Finance	3
3 2204 0310	Urban and Regional Economics	3
3 2204 0402	International Economics	3
3 2204 0403	Comparative Economic Systems	3
3 2204 0405	Collective Bargaining in the Public Sector	3
3 2204 0407	Economics of Industrial Organization	3
3 2204 0414	Development of Economic Thought	3
3 2204 0415	The Economics of Social Problems	3
3 2204 0417	Mathematical Economics	3
3 2204 0418	Economics of Human Resources	3
3 2204 0420	Econometrics	3
3 2204 0461	Seminar in International Economic Geography	3

NO MORE THAN SIX HOURS FROM THE FOLLOWING COURSES:

3 2204 0250	Selected Topics in Economics	3
3 2204 0397, 0398	Independent Study	3
3 2204 0438	Seminar in Advanced Economics	3
3 2204 0497, 0498	Economics Independent Study	3

Minor in Economics

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hour credits from the departmental offerings of which should be Principles of Economics-Micro and Principles of Economics Macro. See Department Chairman or any member of the department for details.

**Not every elective is given every year.

Economics Course Descriptions

3 2204 0100 Introduction to Economics

Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations.

3 s.h.

2204 0101 Principles of Economics: Macro

A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment level of national income and long term growth.

3 s.h.

2204 0102 Principles of Economics: Micro

Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.

3 s.h.

2204 0203 Economic Statistics

Basic elements of Economics Statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.

3 s.h.

2204 0204 Labor Economics

The determinants of wages in the organized and unorganized markets; an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas; an examination of current issues in labor relations.

3 s.h.

Prerequisites: 3 2204 0101 and 0102.

2204 0205 Collective Bargaining Theory and Practice

The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life.

3 s.h.

Prerequisites: 3 2204 0101 and 0102.

3 204 0213 Economic History of the U.S. (also listed as 2205 0213)

Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.

3 s.h.

3 204 0222 Economic History of Europe (also listed as 5 2205 0222)

The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the locations and perplexities of the 19th and 20th centuries.

3 s.h.

204 0250 Selected Topics in Economics

An in-depth study of a particular theoretical or applied area of Economics. Prerequisites: Vary with topics.

3 s.h.

204 0300 World Resources and Industries

(Also listed as 4 2206 0300) Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrialization, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations.

3 s.h.

3 2204 0301 Money and Banking

An analysis of the economic role of money and credit in our economy with primary emphasis on Federal Reserve and Treasury operations. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0302 Financial Institutions

The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0303 Economic Growth and Development

Problems of hastening the growth of countries with low incomes per person; the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0304 Public Policies Toward Business

The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting. 3 s.h.

Prerequisite: 3 2204 0102 or permission of instructor.

3 2204 0305 Intermediate Macroeconomic Analysis

The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0306 Managerial Economics

The application of economic theory in the decision-making processes of the firm utilizing of economic analysis in the study of demand, costs, pricing and capital investment decisions. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0307 Intermediate Microeconomic Analysis

The basic determinants of market demand. Input-Output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0308 Public Finance

The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and growth. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0310 Urban and Regional Economics

The underlying economic forces operating in the urban economy; development of urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area and the public sector of the urban economy. 3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0397, 0398 Economics Independent Study

Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the Economics Department guides the student in his research and reading. 3 s.h.

3 2204 0402 International Economics

The how, why and consequences of the movement of foods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.

3 s.h.

Prerequisite: 3 2204 0101 and 0102.

3 2204 0403 Comparative Economic Systems

The economics systems of planned and mixed economies with special emphasis on the Soviet Union, China, The United Kingdom, the Scandinavian countries and the United States.

3 s.h.

Prerequisites: 3 2204 0101 and 0102 or 3 2204 0100.

2204 0405 Collective Bargaining in the Public Sector

Course will analyze the sources of growth of Collective Bargaining in the Public sector; examine processes utilized by the parties and evaluate the impact of collective bargaining.

3 s.h.

Prerequisite: 3 2204 0101 and 3 2204 0102.

2204 0407 Economics of Industrial Organization

The causes and effects of structure, size and concentration on competition and market prices.

3 s.h.

Prerequisite: 3 2204 0101 and 0102.

2204 0414 Development of Economic Thought

Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.

3 s.h.

2204 0415 The Economics of Social Problems

The extent, causes and consequences of poverty, inequality and insecurity; an appraisal of reforms; social insurance, medical care, public housing and rural development.

3 s.h.

2204 0417 Mathematical Economics

Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.

3 s.h.

Prerequisite: 3 2204 0101, 0102, 0203, 0305 and 0307.

2204 0418 Economics of Human Resources

Analysis of the role of human resources in the economic process.

3 s.h.

Prerequisite: 3 2204 0101 and 0102 or 3 2204 0100.

2204 0420 Econometrics

An introduction to the techniques of applied economic (social science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.

3 s.h.

Prerequisite: 3 2204 0203 Economic Statistics or equivalent.

2204 0438 Seminar in Advanced Economics

A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.

3 s.h.

Prerequisites: 18 hours in Economics or permission of instructor.

2204 0461 Seminar in International Economic Geography

(Also listed as 4 2206 0461)

An interdisciplinary seminar focusing the techniques of Economics and Geography on a common theme, hopefully resulting in a synergistic conclusion.

3 s.h.

Prerequisite: Junior standing and one course in Geography or Economics: 3 2204 0101, 0102.

3 2204 0497, 0498 Economics Independent Study

Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairman must be secured. 3 s.h.

DEPARTMENT OF ENVIRONMENTAL AND URBAN AND GEOGRAPHIC STUDIES

Associate Professors: Boucher, Chairman; Robertson, Sternberg

Assistant Professors: Ballwanz, Contessa, Hinshalwood, Rentsch, Singh,
Taylor

Environmental Studies

Environmental Studies is concerned with the systematic understanding of environmental factors related to life. On the one hand there are the physical factors of water, air and land and on the other hand there are the facts of society, technology and behavior. These physical and cultural factors must be understood in terms of their impact upon life and in terms of their relationship to each other.

Students at Montclair can develop their own environmental program by completing the 3 course requirements for a major in geography-urban studies and constructing their own program by selecting courses in this and allied departments. Departmental advisors are available to help students develop the best program according to their needs and interests.

Upon completion of the program graduates have two options: (1) graduate work leading to an M.S. or an M.A. degree or (2) mid-management positions as environmental planners. There are career possibilities in state, county and local governments, private consulting firms, in outdoor education and nature centers, and in publishing and the media.

Urban Studies

The transformation of rural land into urban land and the dynamic movement of the world's population into cities constitutes one of the most profound revolutions of our times. Today, most people live and work in cities or metropolitan areas and face similar problems regardless of cultural or nationalistic perspectives. The key issues of the contemporary world are urban issues such as housing, pollution, social services, transportation, services to the aged, governmental reorganization, traffic congestion, mental health and urban decay. Urban Studies focuses on the problems which face urban society and prepares students with the technical skills and knowledge necessary to fully comprehend urban growth and development and social, cultural, political, economic, and environmental consequences.

Program in Urban Studies

The Urban Studies program at Montclair is both interdisciplinary and multidisciplinary. Students from all academic areas of the college can participate in the program.

A major feature of the program is the full semester off-campus internship where students will be placed in a public or private agency in an urban setting. Students will be placed in agencies according to their particular needs and interests. The Urban Studies program at MSC has already placed numerous graduates in agencies in New York-New Jersey, ranging from mental health, planning, private research firms, housing, transportation, gerontology, to selected social services.

Students may major in geography-urban studies or in geography. It is possible for students majoring in other disciplines to elect a second major in geography-urban studies or to follow a minor program.

Geography

Geography is the study of all natural and cultural elements found on the surface of the earth. Though individual phenomena are studied in detail by one or another of the academic disciplines, Geography undertakes the unique task of studying the space relations of things. It derives its identity from this spatial point of view.

In an attempt to understand the interrelationships of things in space, a view is fostered which integrates the natural, physical and social sciences. Thus the unity of knowledge, necessarily destroyed by the systematic sciences concerned with parts of the whole, is to a high degree restored in Geography, and a broad scholarship is achieved.

The major in geography is designed to give the student a solid background and training for many career choices: teaching, planning, industry, government, environmental studies, etc.

Major in Geography-Urban Studies

Requirements		semester hours
4 2206 0100	Principles of Geography or	3
4 2206 0200	Cultural Geography	3
4 2206 0206	Introduction to American Urban Studies	3
4 2206 0309	Research Methods in Geography and Urban Studies or	
4 2206 0310	Quantitative Methods in Geography and Urban Studies.....	3

Electives

At least 24 semester hours including the internship and senior seminar. See electives listed below marked with an *

Minor in Urban Studies

Requirements:		semester hours
4 2206 0206	Introduction to American Urban Studies	3
4 2206 0461	People and Cities: Comparative Urban Studies	3
4 2206 0463	Internship in Urban Studies	12
4 2206 0464	Senior Seminar in Urban Studies.....	3
		REQUIRED TOTAL
		21

Major in Geography

Requirements:		semester hours
4 2206 0100	Principles of Geography.....	3
4 2206 0200	Cultural Geography.....	3
4 2206 0309	Research Methods in Geography & Urban Studies or	
4 2206 0310	Quantitative Methods in Geography.....	3

Electives in Geography & Urban Studies:

4 2206 0109	Man and His Environment	3
4 2206 0201	Climatology	3
*4 2206 0202	Geography of Anglo America.....	3
4 2206 0203	Our Finite Earth: Population and Resources	3
*4 2206 0204	Principles of Land Use	3
4 2206 0206	Introduction to American Urban Studies	3
*4 2206 0209	American Cityscape: Urban Form and Architecture	3
4 2206 0225	Environmental Geoscience	3
T 1914		
*4 2206 0251	Aerial Photograph Interpretation	3
T 1914		
4 2206 0252	Hydrology	3
*4 2206 0300	World Resources and Industries.....	3
4 2206 0301	Urban Field Studies	3
*4 2206 0303	Field Geography	3
4 2206 0304	Geography of Europe	3

4 2206 0305	Geography of East and Southeast Asia	3
4 2206 0306	Geography of South Asia	3
4 2206 0308	Land and Life in Latin America	3
4 2206 0310	Quantitative Methods in Geography	3
*4 2206 0311	Geography of Manufacturing	3
4 2206 0312	Historical Geography of the United States	3
*4 2206 0313	Urban Geography	3
*4 2206 0317	Issues of Contemporary Metropolitan America	3
4 2206 0330	Culture in Transition in India: An Anthropo-geographical Approach	3
*4 2206 0331	Urbanization and Environment	3
4 2206 0352	Fluvial Geography	3
4 2206 0355	World Regional Geomorphology	3
T 1914		
4 2206 0401	Fundamentals of Remote Sensing of Environment	3
4 2206 0404	Geo-Ecology	3
*4 2206 0405	Computer Applications in Geography	3
*4 2206 0408	Political Geography	3
*4 2206 0409	Urbanization in World Perspective	3
*4 2206 0411	Problems in Urban Geography	3
4 2206 0412	Geography of Sub-Saharan Africa	3
4 2206 0413	Geography of the Middle East	3
4 2206 0421	Population Problems of the World	3
*4 2206 0424	Geography of New Jersey	3
4 2206 0426	Independent Study in Geography	3
4 2206 0427	Pro-Seminar in Geography	3
*4 2206 0428	Urban Studies: London and the British New Towns Movement	3
*4 2206 0444	Village to Metropolis: Urbanization in Latin America	3
4 2206 0452	Geohydrology	3
4 2206 0457	Meteorology	3
4 2206 0456	Hydroclimatology	3
*4 2206 0462	People and Cities: Comparative Urban Studies	3
4 2206 0463	Internship in Urban Studies	3
4 2206 0464	Senior Seminar in Urban Studies	3
REQUIRED TOTAL		30

INTERDISCIPLINARY PROGRAMS

The Department of Geography and Urban Studies participates in several interdisciplinary programs: Transcultural Studies, Latin American Studies and Asian Studies. It is possible for a major in the department to design a career program in number of professional fields.

Some Recommended Courses for Regional Planning:

4 2206 0202	Geography of Anglo-America	3
4 2206 0204	Principles of Land Use	3
4 2206 0206	Introduction to Urban Studies	3
4 2206 0251	Aerial Photograph Interpretation	3
4 2206 0252	Hydrology	3
4 2206 0311	World Resources and Industries	3
4 2206 0317	Issues of Contemporary Metropolitan America	3

Some Recommended Courses for Students Interested in the Field of International Tourism:

4 2206 0201	Climatology	3
4 2206 0206	Introduction to Urban Studies	3
4 2206 0251	Aerial Photograph Interpretation	3
4 2206 0300	World Resources and Industries	3
4 2206 0310	Quantitative Methods in Geography and Urban Studies	3

4 2206 0409	Urbanization in World Perspective	3
4 2206 0462	People and Cities	3

(Appropriate regional courses of the world.)

Some Recommended Courses for Careers in Government:

4 2206 0302	World Resources and Industries	3
4 2206 0408	Political Geography	3
4 2206 0409	Urbanization in World Perspective	3
4 2206 0421	Population Problems of the World	3
4 2206 0462	People and Cities	3

(Also selected regional courses of the world.)

Some Recommended Courses for Graduate Studies in Geography:

4 2206 0201	Climatology	3
T 1914 0250	Map Interpretation and Cartography	3
4 2206 0309	Research Methods in Geography and Urban Studies	3
4 2206 0310	Quantitative Methods in Geography	3
4 2206 0313	Urban Geography	3
4 2206 0408	Political Geography	3

Some Recommended Courses for Careers in Environmental Studies:

4 2206 0109	Man and His Environment	3
4 2206 0201	Climatology	3
4 2206 0205	Environmental Geoscience	3
4 2206 0252	Hydrology	3
4 2206 0303	Field Geography	3
4 2206 0310	Quantitative Methods in Geography and Urban Studies	3
4 2206 0331	Urbanization and Environment	3
4 2206 0352	Fluvial Geography	3
4 2206 0404	Geo-Ecology	3
4 2206 0421	Population Problems of the World	3
4 2206 0452	Geo-Hydrology	3
4 2206 0456	Hydroclimatology	3

Geography and Urban Studies

Course Descriptions

2206 0100 Principles of Geography

The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution; mapping techniques and map interpretation. 3 s.h.

2206 0109 Man and His Environment (Also listed as 2001 0109)

An interdisciplinary course which examines man's relationship to his natural environment, his reliance in it, his view on it, and his changes in it, and future human and environmental projections. 3 s.h.

2206 0200 Cultural Geography

Concepts of cultural geography including culture hearth, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of cultural patterns and institutions that unite or separate human groups. 3 s.h.

2206 0201 Climatology

Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge and climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living

270 / Geography and Urban Studies

rationally within a climatic environment.

3 s.h.

4 2206 0202 Geography of Anglo-America

Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change: urbanization, industrial growth, transportation, trade patterns, population of distribution and modern agriculture.

3 s.h.

4 2206 0203 Our Finite Earth: Population and Resources

Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternative ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources.

3 s.h.

4 2206 0204 Principles of Land Use

Geographical analysis of rural and urban use patterns in the United States and in the world. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

3 s.h.

4 2206 0206 Introduction to American Urban Studies

An Interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban cultural styles, and radical and reform responses to critical urban issues will be explored.

3 s.h.

4 2206 0209 American Cityscape: Urban Form and Architecture

The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment; cultural values and changing urban forms; and new town design.

3 s.i.

4 2206 0225 Environmental Geoscience (Also listed as T 1914 0225)

The study of the relationships between man and his physical habitat. Earth resources, processes and systems and the engineering properties of natural materials insofar as they are important to, effect, or are effected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas. (Not offered every year) (3 hours lecture)

3 s.

Prerequisite: T 4902 0107 or T 4902 0108 or T 1914 0112.

4 2206 0251 Aerial Photograph Interpretation (Also listed as 1914 0251)

Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hr. lecture, 2 hrs. laboratory).

3 s.

4 2206 0252 Hydrology (Also listed as T 1914 0252)

Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes.

3 s.

4 2206 0300 World Resources and Industries (Also listed as 3 2204 0300)

Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population/resource ratios. World trend in production controls and market allocations.

3 s.

4 2206 0301 Urban Field Studies

Off-campus study of urban conditions in New York-New Jersey Metropolitan area: housing, mass transportation, social pathologies, inner city economics and the role of planning. On-campus discussion sessions alternate with field trips.

3 s.

4 2206 0303 Field Geography

Geographic analysis of local region. Uses of reconnaissance and survey, interviews, maps and ground and aerial photographs in information gathering. Requires individual area study.

3 s.h.

4 2206 0304 Geography of Europe

The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies.

3 s.h.

4 2206 0305 Geography of East and Southeast Asia

Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia); the physical and cultural landscape and the problems of economic development.

3 s.h.

4 2206 0306 Geography of South Asia

Political, cultural and economic study of India, Pakistan and Bangladesh; interrelationship between cultural and physical aspects of the regional landscape.

3 s.h.

4 2206 0308 Land and Life in Latin America

Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification.

3 s.h.

4 2206 0309 Research Methods in Geography and Urban Studies

Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material.

3 s.h.

4 2206 0310 Quantitative Methods in Geography & Urban Studies

Treatment of measurements and design in geography; definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation.

3 s.h.

4 2206 0311 Geography of Manufacturing

The world's manufacturing activities; measurement techniques; analysis of the economic, cultural and geographic bases in industrialization; plant location problems and the special situation of underdeveloped nations.

3 s.h.

Prerequisite: 4 2206 0302.

4 2206 0312 Historical Geography of the United States (Also listed as 5 2205 0312)

The slow pace of settlement of the Eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800.

3 s.h.

4 2206 0313 Urban Geography

Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial, and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems.

3 s.h.

4 2206 0317 Issues of Contemporary Metropolitan America

An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political, and economic issues.

3 s.h.

4 2206 0330 Culture in Transition in India: An Anthropo-geographical Approach

(Also listed as I 2202 0330)

India in its geographical and socio-anthropological setting. Focuses on the nature and processes bringing about transition in traditional values and social institutions.

3 s.h.

4 2206 0331 Urbanization and Environment

Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.

3 s.h.

4 2206 0352 Fluvial Geography (Also listed as T 1914 0352)

Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams and stream channels; processes, quantitative techniques.

3 s.h.

4 2206 0355 World Regional Geomorphology (Also listed as 1914 0355)

Distribution and geomorphic characteristics of major landforms are studied as to origin, stage of geologic development and interrelationship. (Not offered every year)
(3 hrs. lecture)

3 s.h.

Prerequisite: An introductory course in Geoscience or permission of the instructor.

4 2206 0401 Fundamentals of Remote Sensing of Environment

Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses.

3 s.h.

Prerequisite: 9 semester hours of geography.

4 2206 0404 Geo-ecology

Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e. soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.

3 s.h.

4 2206 0405 Computer Applications in Geography

Theory and practice using a digital computer to solve problems encountered in geography; Fortran IV, computer solution of regressions, and SYMAP (computer mapping).

3 s.h.

4 2206 0408 Political Geography

Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.

3 s.h.

4 2206 0409 Urbanization in World Perspective

Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in third world

3 s.h.

4 2206 0411 Problems in Urban Geography

Seminar on the application of geographic concepts and theories to the analysis of urban problems. Field or library research projects by students on specific urban problems.

3 s.t.

4 2206 0412 Geography of Sub-Saharan Africa

Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.

3 s.

4 2206 0413 Geography of the Middle East

Topical study of area extending from Morocco to Iran: arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth.

Includes Arab culture and Islamic influences on urban and rural landscapes. 3 s.h.

4 2206 0421 Population Problems of the World

Identification, description and analysis of the present-day distributional patterns of the world's people; demographic trends, man-land ratios, mobility, migration and socio-economics and geographic forces affecting world population. Techniques for measurement and analysis. 3 s.h.

Prerequisite: 4 2206 0220.

4 2206 0424 Geography of New Jersey

Demographic and economic organization of the State. Spatial contrasts in population density; suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey. 3 s.h.

4 2206 0426 Independent Study in Geography

Preparation of a research paper or project to be presented to members of the staff.

3 s.h.

4 2206 0427 Pro Seminar in Geography

Problem-oriented seminar: specific topics in regional, cultural, physical, economic, political or historical geography. Content changes according to the needs of the instructor. 3 s.h.

4 2206 0444 Village to Metropolis: Urbanization in Latin America

Examines urbanization in Latin America from Columbian times to the present. Portuguese and Spanish town planning practices and their evolution into modern times, including their impacts upon evolving urban morphology and subsequent metropolitanization. 3 s.h.

2206 0452 Geohydrology (Also listed as T 1914 0452)

Ground water study: migration, chemistry and relation to the environment. Darcy's law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes. 3 s.h.

2206 0456 Hydroclimatology (Also listed as T 1914 0456)

Climatology emphasizing moisture as one of the fundamental factors in climatic analysis; processes and problems of classification and variability. Examines energy and water balance. 3 s.h.

2206 0457 Meteorology (Also listed as T 1914 0457)

The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

Prerequisite: An introductory course in Geoscience.

2206 0461 Seminar in International Economic Geography

(Also listed as 3 2204 0461)

An interdisciplinary seminar focusing the techniques of Economics and Geography on a common theme to achieve a synergistic conclusion. 3 s.h.

Prerequisites: Junior standing and one course in Geography and 3 2204 0101 and 204 0102.

2206 0462 People and Cities: Comparative Urban Studies

(Also listed as 4 2202 0462 and 4 2205 0462)

Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world. 3 s.h.

2206 0463 Internship in Urban Studies

A full semester internship in an urban agency or agency dealing with urban affairs.

Students are placed according to their interests and educational background. Under faculty guidance and agency supervision students engage in research, project assignments or other educationally significant tasks. Students are expected to enroll in 4 2206 0464 Senior Seminar in Urban Studies. 9 or 12 s.h.

Prerequisite: Open only to seniors and must have successfully completed 4 2206 0206 and 2206 (2202) 0462.

4 2206 0464 Senior Seminar in Urban Studies (Urban Studies Internship)

A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience. 3 s.h.

Prerequisites: 4 2204 0206 and 4 2206 0462.

Environmental Studies

Please note that some of these courses are offered at the New Jersey School of Conservation. Consult the department for further information.

4 0843 0404 Outdoor Teaching Sites for Environmental Education

This field-oriented course will include a working definition of outdoor environmental teaching sites as they relate to current developments in environmental education. Also incorporated, through lecture, discussion, and field activities will be pertinent information on the philosophy, design, construction, and use of outdoor environmental teaching sites, with special emphasis on sites which can be developed on land areas adjacent to schools. 2 s.h.

4 0843 0460 Practicum in Environmental Education

This course is designed to provide teachers and supervisors with a background experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units and list teaching aids in projects suitable for use in their own community. Participating in conservation projects with the children in the demonstration camp furnishes practical background for research and discussion. 3 s.h.

4 0843 0495 Workshop in Utilizing Natural Environments

To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of environment in their curricula.





will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging between 15 and 20 specific subject areas. 1 s.h.

0843 0496 Field Study in Humanities and Natural Science

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity. 1 s.h.

Prerequisite: Restricted to in-service classroom teachers.

0843 0497 Field Studies in Social Studies and Outdoor Recreation

Provides teachers in various subject areas with an understanding of how outdoor pursuits and social studies may be taught through a utilization of natural environments in order to develop an environmental sensitivity. 1 s.h.

Prerequisite: Restricted to in-service classroom teachers.

DEPARTMENT OF HISTORY

Professors: Barker, Chairman; Beckwith, More, Royer

Associate Professors: Keenen, Kops, Moore, Zimmer

Assistant Professors: Bell, Bretherton, Macaluso, Mwangi Wa-Githumo,

Olenik, Pastor, Pate, Prosser, Schwartz, Wyatt

Instructor: Sudnick

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools.

History Major

I. Requirements		semester hours
5 2205 0100	The Study of American History	
5 2205 0101	The Study of European History	
or		
5 2205 0102	The Study of Non-Western History	
II. Minimum Concentration in American, Latin-American, European or Asian History		1
III. History Electives.....		1
		REQUIRED TOTAL

A minimum concentration of twelve semester hours is required in American, Latin-American, European or Asian history. A special requirement is six semester hours in the study of history, 5 2205 0100 and either 0101 or 0102. These courses are designed to investigate the basic nature and methods of history and to help introduce students to opportunities and problems of research in the main fields of history. Work in supportive areas—e.g., anthropology, art history, economic English or foreign literature, geography, philosophy and religion, political science, psychology, sociology, transcultural or urban studies—should be discussed with departmental faculty advisors.

History Course Descriptions

5 2205 0100 The Study of American History

The nature of historical research and reasoning; student experience in working with actual historical materials and procedures. 3 s.

5 2205 0101 The Study of European History

European history as a field of study and research; basic historical concepts and generalizations related to the data of European history. 3 s.

5 2205 0102 The Study of Non-Western History

Problems of the researcher in Asian history; sources of cultural history, including works of philosophy, literature, history and anthropology. 3 s.

5 2205 0103 Development of Early Western Civilization

Origins and development of Western civilization to about 1350: Egyptian, Jewish, Greek, Roman, Islamic and Medieval European contributions. 3 s.

5 2205 0104 Introduction to Historical Thinking

History examined as a mode of inquiry. Emphasis on student experience working

- with historical materials, procedures and problems. 3 s.h.
- 5 2205 0105 Western Civilization: 1350 to Napoleon**
 A study of the history of Europe from the end of the Middle Ages to the Congress of Vienna: The Renaissance and Reformation, the rise of new monarchies, Tudor and Stuart England, The Scientific Revolution, the Enlightenment, the French Revolution and Napoleon. 3 s.h.
- 5 2205 0106 Western Civilization: Napoleon to World War I**
 A study of the history on Europe since the Congress of Vienna; the rise of nationalism, liberalism, socialism, and democracy; the Industrial Revolution; unifications of Italy and Germany; imperialism and factors leading to World War I. 3 s.h.
- 5 2205 0107 Western Civilization: The 20th Century**
 Surveys the history of Europe from World War I to the present. Major topics include the Paris Peace Conference, the development of communism in Russia; the rise of fascism in Germany, Italy and Spain; the origins of World War II; the European states after 1945. 3 s.h.
- 5 2205 0108 Development of African Civilization**
 Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environment systems of the period. 3 s.h.
- 5 2205 0109 Development of Islamic Civilization**
 Muslim society, culture and history from the birth of Muhammed through the development of the classical Osmanli state of the 16th century. 3 s.h.
- 5 2205 0110 Development of American Civilization**
 The mainstreams of development in American civilization. Political intellectual, social, economic and cultural forces and achievements which have made the United States distinctive. 3 s.h.
- 5 2205 0111 Contemporary American Issues in Historical Perspective**
 Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society. 3 s.h.
- 5 2205 0114 Early Latin American Civilization**
 The components of Latin American civilization. Geographical background and development of Mayan, Incan and Aztec civilizations; Spanish and Portuguese backgrounds; the wars of independence. 3 s.h.
- 5 2205 0115 History of Puerto Rico**
 The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States. 3 s.h.
- 5 2205 0116 Modern Latin American Civilization**
 Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economical independence. 3 s.h.
- 5 2205 0131 Development of Indian Civilization**
 The early history in India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions. 3 s.h.
- 5 2205 0132 Classical Chinese Civilization**
 The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and metaphysical-philosophic works, corresponding values and institutions. 3 s.h.

5 2205 0133 Modern Chinese Civilization

Modern China and Japan, 1600 to present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works. 3 s.h.

5 2205 0201 Europe in World History

European history in a global setting. The formation of a distinctive European civilization, its expansion overseas, and encounters with other world civilizations and cultures, A.D. 500-1914. 3 s.h.

5 2205 0204 The Second World War

The cultural and psychological impact of total war, the introduction of total mobilization and the application of management science to the conduct of war. 3 s.h.

5 2205 0210 Selected Topics in American History to 1876

Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction. 3 s.h.

5 2205 0211 Selected Topics in American History Since 1876

Issues and problems in the development of the American nation from the Civil War to the present. 3 s.h.

5 2205 0212 Social History of the United States

Social and cultural aspects of American history: population movements, rural and urban problems, status of women, utopian ventures, mass media, recreation, human rights. 3 s.h.

5 2205 0213 Economic History of the United States (Also listed as 2204 0213)

Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present, factors of economic growth. 3 s.h.

Prerequisite: 2204 0101, 0102 or 0200.

5 2205 0214 Diplomatic History of the United States

Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field. 3 s.h.

5 2205 0215 Women in American History

The changing role and status of women in American society from colonial times to the present. 3 s.h.

5 2205 0217 History of Black Americans

This course is designed to give students an opportunity to study the role of Negro within the historical development of the United States. It includes examination and evaluation of materials currently available for the teaching and study of the subject on the secondary school level. 3 s.h.

Prerequisite: 6 semester hours in American History or permission of the instructor.

5 2205 0218 Political History of the U.S.

The historical development of American political institutions from the early 1700s to the present. Course focuses upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders. 3 s.h.

5 2205 0220 Introduction to American Urban History

Main developments in the rise of urban America. Distinctive forces in the urbanization of our society; social, cultural, economic and political adjustments which urbanization stimulated and necessitated. 3 s.h.

5 2205 0221 European Expansion to the Americas, 1415-1763

A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe — institutions, ideas, traditions, technologies — and resulting confrontations with an impact on native American peoples.

3 s.h.

5 2205 0222 Economic History of Europe (Also listed as 3 2204 0222)

European economic development from the Middle Ages to the present. Emphasis on the first Industrial Revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia.

3 s.h.

5 2205 0281 Greek Civilization (Also listed as J 4903 0281)

Greece's contribution to Western Civilization is studied through her architecture, art, literature, and sculpture.

3 s.h.

5 2205 0282 Roman Civilization (Also listed as J 4903 0282)

Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own; the planting of Roman culture and civilization along the route of the Roman army; monuments and relics as testimony to the Roman penetration and influence.

3 s.h.

2205 0311 The Early History of New Jersey, 1702-1789

rom royal colony to the establishment of the federal government under the Constitution; state and local events during the American Revolution.

3 s.h.

2205 0310 The Immigrant in American History

he processes by which the immigrant was incorporated into American society. Includes the cultural backgrounds from which the different groups came; the reasons for emigration; the nature of the communities they created once they reached the U.S.; their religious and social institutions; the problems of maintaining ethnic culture with the pressure to Americanize.

3 s.h.

2205 0312 Historical Geography of the United States

the slow pace of settlement of the Eastern Seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800.

3 s.h.

2205 0313 Biography in American History

the significant biographical materials available in the study of American history; the problems and uses of biography.

3 s.h.

2205 0319 American Urban History to 1880

the urban dimension in American history and development of city life to 1880. Papers of the 19th century city; instability and disorders due to transit and geographic revolutions.

3 s.h.

Prerequisite: 5 2205 0210 or equivalent background in American history.

2205 0320 American Urban History Since 1880

Transformation of the 19th century industrial city into the 20th century metropolis; the emergence of the New York metropolitan region.

3 s.h.

Prerequisite: 5 2205 0211 or equivalent background in American history.

2205 0321 History of the American Worker Since 1877

Story of the American worker rather than his trade union; the worker's legal status, political behavior, social and cultural activities, treatment by employer and state.

3 s.h.

2205 0322 Medieval European Civilization, 450-1350

Origins, development and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.

3 s.h.

5 2205 0323 History of Russia to 1917

Factors shaping the Russian people: Byzantium and Greek Orthodox faith. Tatar state organization, the Mir, Westernization from Peter to Lenin, intellectual and radical movements.

3 s.t

5 2205 0324 Russia Since 1917

Political, social, economic and intellectual developments in the Soviet Union; the relationship of ideology and national goals.

3 s.t

5 2205 0326 Nineteenth Century German Culture and Society

The impact of modernization on 19th century German culture and society; resulting conservative political traditions and irrational cultural trends.

3 s.t

Prerequisite: 5 2205 0202 or equivalent background in European history.

5 2205 0327 History of France Since 1789

Political, social, economic and intellectual developments in France since the Revolution.

3 s.

5 2205 0328 Conflict in Modern Ireland

A history of Irish nationalism with emphasis on the period from 1800 to the present.

3 s.

5 2205 0329 History of England to 1714

Emphasis on political and constitutional history, the formation of basic institutions of law and government; related economic, social and cultural factors.

3 s

5 2205 0330 Chinese Social History Through Literature

Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.

3 s

5 2205 0331 History of England, 1714-1914

Political, social and economic history from the Hanoverian succession to the 20th century: Industrial Revolution, changing balance of the Constitution, British imperialism, the Irish question.

3 s

5 2205 0332 Revolutions in Latin American History

Causes, course and consequences of three major revolutions: Mexico, Bolivia, Cuba. Impact on present-day domestic developments and international relations.

3 s

5 2205 0333 History of Brazil

Traces the historical development from the pre-historical Indian cultures to 1970s; covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.

3 s

5 2205 0335 The Communist Revolution in China

Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.

3 s

5 2205 0336 Emergence of African Nationalism

Factors contributing to the development of African nationalism, 1900-1960.

3 s

5 2205 0339 Seminar in Latin American History

5 2205 0340 Seminar in American History

5 2205 0341 Seminar in European History

5 2205 0342 Seminar in Asian History

Junior-Senior year seminars for small group discussion of selected topics and problems.

3 s

Prerequisite: Nine semester hours in the area of the seminar or permission of the instructor.

5 2205 0408 Independent Study in European History

5 2205 0409 Independent Study in Non-Western History

5 2205 0410 Independent Study in American History

3 s.h. ea.

5 2205 0411 Intellectual History of the United States

Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices. 3 s.h.
Prerequisite: Nine semester hours in American history or permission of the instructor.

5 2205 0412 The Literature of American History

The major sources for studying and writing American History, changing interpretations of major events and themes, works of major historians. 3 s.h.

5 2205 0413 The Philosophy of History

Development of historical thought and the writing of history in the western world from Herodotus to the present. 3 s.h.

5 2205 0416 Church and State in Latin America

The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America. 3 s.h.

5 2205 0419 Age of the Renaissance, 1350-1517

Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517. 3 s.h.

5 2205 0420 The Reformation Era, 1500-1650

Religious movements of the 16th and 17th centuries; their medieval antecedents; the accompanying political, intellectual and socioeconomic forces. 3 s.h.

5 2205 0422 Studies in Enlightenment History

Major intellectual developments in 18th century Europe: rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures. 3 s.h.

Prerequisite: 5 2205 0201 or equivalent background in European history.

5 2205 0425 Ideas in European History: Burke to Nietzsche

Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background. 3 s.h.

Prerequisite: 5 2205 0202 or equivalent background in European history.

2205 0426 The Nazi Third Reich

The impact of World War I on German culture and society; development of facistic trends in German political thought. 3 s.h.

Prerequisite: 5 2205 0202 or equivalent background in European history.

2205 0431 Development of Indian Character and Culture

The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization; contributions of religion to social and political values and modern literature. 3 s.h.

Prerequisite: 5 2205 0131, 0331.

2205 0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. 3 s.h.

5 2205 0433 American Colonial History, 1607-1763

Developments within the English colonies, interactions between England and the colonists; growth of a distinctive American society.

3 s.h.

5 2205 0434 American Revolution and Early Republic, 1763-1828

Analysis of events leading to the War for Independence; political, economic and foreign problems of the new nation; the growth of nationalism.

3 s.h.

5 2205 0435 Crisis of the Union, 1820-1876

Significant events and developments of the period: Jacksonian democracy, westward expansion and sectionalism, the Civil War and Reconstruction.

3 s.h.

5 2205 0436 America in the Gilded Age

The forces which contributed to the development of modern, industrialized America; American society and its reaction to changes of the period.

3 s.h.

5 2205 0437 American Society in the 20th Century

The continuing reactions to the problems of an industrialized America; the New Deal and recent Supreme Court decisions.

3 s.h.

5 2205 0443 Internship in History

Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.

3 s.h.

Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

5 2205 0461 Cultural History of Preliterate Societies (Also listed as 2202 0461)

Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies.

3 s.h.

Prerequisite: 1 2202 0100 or 5 2205 0102.

5 2205 0462 People and Cities (Also listed as 1 2202 0462 and 4 2206 0462)

Interdisciplinary and cross-cultural investigation of processes of urbanism and urbanization; the formation, structure and functioning of cities throughout the world.

3 s.h.

Prerequisite: 1 2202 0404, 5 2205 0220, 4 2206 0410 or 8 2208 0306, or permission of the instructor.



TRANSCULTURAL MAJOR IN WORLD CULTURES

Lois A. More, General Program Coordinator

Program A**Transcultural Studies**

Transcultural Studies, an approach to World Cultures, offers opportunities to analyze generalizations regarding human behavior and to examine universal aspects of social institutions that transcend boundaries of culture areas. The program prepares students to teach world cultures in junior and senior high schools. As a Liberal Arts major, it is preparatory to graduate specialization in cultural anthropology, geography or history, as well as careers in business, museums, government or private agencies whose focus is the non-West.

Program Coordinator: Lois A. More, History

	semester hours
I. Core Requirements.....	9
1 2202 0200 Cultural Anthropology	
4 2206 0200 Cultural Geography	
5 2205 0102 Study of Non-Western History	
II. Unit Requirements	12
Students are required to elect two of the following 6 s.h. transcultural units:	
1 2202 307 Peoples of Southeast Asia	
4 2206 305 Geography of East and Southeast Asia	
5 2205 132 Classical Chinese Civilization	
5 2205 133 Modern Chinese Civilization	
(select two)	
4 2206 306 Geography of South Asia	
5 2205 131 Development of Indian Civilization	
1 2202 330, 2206 330 Culture in Transition in India: An Anthropo-Geographical Approach	
(select two)	
1 2202 301 Peoples of Africa	
4 2206 412 Geography of Sub-Sahara Africa	
5 2205 108 Development of African Civilization	
(select two)	
1 2202 304 Peoples of the Soviet Union	
4 2206 419 Geography of the Soviet Union	
5 2205 323 History of Russia to 1917	
(select two)	
1 2202 303 or 309 Peoples of South or Middle America	
4 2206 308 Land and Life in Latin America	
5 2205 114 Early Latin American Civilization	
5 2205 116 Modern Latin American Civilization	
(select two)	
4 2206 413 Geography of the Middle East	
5 2205 109 Development of Islamic Civilization	
1 2202 310 Cultures of the Middle East	
(select two)	
I. Electives	12
1 2202 302 Ethnology of Oceania	
1 2202 402 Dynamics of Culture	
1 2202 405 Psychological Anthropology	
1 2202 406 Peasant Culture	
1 2202 409 Anthropology of Religion	
1 2202 463 Anthropological Linguistics	
5 2205 461 Cultural History of Preliterate Societies	

5 2205 330	Chinese Social History Through Literature	
5 2205 431	Development of Indian Character and Culture	
5 2205 432	Development of Japanese Character and Culture	
4 2206 421	Population Problems of the World	
4 2206 423	Culture and Resource Utilization	
1 2202 412	Cultural Ecology	
1 2202 415	Women in Traditional Society	
1 2202 460, 5 2205 460, 4 2206 460	Independent Transcultural Study	
		TOTAL 33

Program B**Asian Studies**

Asian Studies, a program in the social sciences and humanities, introduces the classical Asian civilizations and their modern transformations. The program offers regional concentrations in South or East Asia. Students prepare for Asian graduate study and careers in journalism, government, and international business or private agencies whose focus is Asian.

Program Coordinators: Suresh Desai, Economics; J. Kenneth Olenik, History

semester hours

I.	Introduction — Mode of Inquiry	
	Required: 5 2205 102 Study of Non-Western History	
II.	Interdisciplinary Regional Concentration	1
	(One regional concentration)	
a.	East Asia	
	Required:	
	5 2205 132 Classical Chinese Civilization	
	Electives (3 courses in 3 disciplines)	
	4 2206 305 Geography of East & Southeast Asia	
	6 2207 403 Government & Politics of China & Japan	
	8 2208 334 Comparative Social Systems: U.S. & the East Asia Societies	
	4 2206 460 Independent Study: East Asia	
b.	South Asia	
	Required: 5 2205 131 Development of Indian Civilization	
	Electives (3 courses)	
	4 2206 306 Geography of South Asia	
	6 2207 404 Government and Politics of South Asia and India	
	4 2206 330, 2202 330 Culture in Transition in India: An Anthropological Approach	
	J 4903 290 Indian Literature and Culture	
	4 2206 460 Independent Study: South Asia	
III.	Comparative Studies — Modernization	6
	Electives (2 or 3 courses)	
	8 2208 334 Comparative Social Systems: U.S. and the East Asia Societies	
	3 2204 303 or 2204 403 Economic Growth and Development or Comparative Economic Systems	
	1 2202 406 Peasant Culture	
	6 2207 303 The Politics of Development and Modernization	
	4 2206 409 Urbanization in World Perspective	
IV.	General Electives (3 or 4 courses)	9-
	4 2206 413 Geography of the Middle East	
	5 2205 109 Development of Islamic Civilization	
	1 2202 310 Cultures of the Middle East	

6 2207 406	Government and Politics of the Middle East
1 2202 307	Peoples of Southeast Asia
5 2205 133	Modern Chinese Civilization
1 2202 432	Development of Japanese Character and Culture
5 2205 335	The Communist Revolution in China
5 2205 330	Chinese Social History through Literature
5 2205 431	Development of Indian Character and Culture
5 2205 342	Seminar in Asian History
5 1510 230 & 1509 340	Oriental Philosophy
5 1510 205	Oriental Religions

TOTAL 33

Program C**Latin American Studies**

The Latin American Area Studies Specialization offers the student a wide range of opportunities, both in terms of academic flexibility and future professional endeavors. The specialization provides a three-pronged approach: A. the student is exposed to several disciplines which analyze Latin America and Latin Americans in depth; B. there is a language component which enables the student to better understand local cultures and to communicate effectively within them; C. the field experience components of this specialization gives the student the opportunity to put into practice the knowledge acquired in the classroom. Those graduating within this specialization will have a broad background which will allow them great latitude in career choices.

Program Coordinators: Rolf Sternberg, Geography; Rose Minc, Spanish/Italian; George Bernstein, Educational Foundations

semester hours

I. Requirements.....	19-25
✓ P 0308 100 The Many Worlds of Latin America: Interdisciplinary Perspectives	
5 2205 114 Early Latin American Civilization	
P 0308 300 Pre-Field Work Seminar in Latin American Area Studies Field Experience	
P 0308 401 Post-Field Work Seminar in Latin American Area Studies	

Electives 8-14

Students are required to take courses in a minimum of three fields or disciplines. Early Latin American Civilization — which is a requirement — fulfills this minimum history need. Elective offerings are in the following fields:

Anthropology	Geography	Sociology
Comparative Education	History	Spanish
Economics	Political Science	Linguistics

DEPARTMENT OF POLITICAL SCIENCE

Professor: Hourtoule

Associate Professors: Johnson, Chairman; Utete

Assistant Professors: Balfe, Batkay, Berlin, Menake, Long

Instructors: Feldstein

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics in the contemporary world. Students concentrate in a) American government and politics, b) comparative government and politics, c) international relations or d) political thought and method. In addition to its traditional-legal aspects, it is part of the behavioral sciences drawing extensively from the findings of other relevant disciplines.

Pre-Law—Dr. Balfe—All-College, School and Departmental Advisor

As many political science majors at Montclair State College identify themselves as pre-law, the department maintains a full-time law school advisor to assist seniors in their preparation and selection of law schools. Several clusters of courses in the department are suggested for law school candidates, including criminal and civil law plus American constitutional and international law.

Minor in Public Administration

To provide more employment opportunities in both state and local government, the political science department has put together a new minor program in public administration. Open to all students it includes:

Core Requirement

Institutions of American Government	3
Introduction to Public Administration	3

Electives

Politics of the Federal Bureaucracy	3
Public Personnel Administration	3
Governmental Budgeting	3
Urban Administration	3
Seminar & Internship	3
State & Local Government	3

REQUIRED TOTAL 18+

Political Science Major

I. Requirements — 18 credit hours	semester hour
6 2207 0102 The American Political Process.....	.....
6 2207 0103 Institutions of American Government .....	.....
6 2207 0201 Comparative Government & Politics.....	.....
6 2207 0202 International Relations.....	.....
6 2207 0300 Scope and Theories in Political Sciences.....	.....
6 2207 0408 Development of Political Thought to Machiavelli .....	.....
II. Electives — 15 credit hours	semester hour
*6 2207 0200 Introduction to Politics.....	.....
6 2207 0203 International Organization.....	.....
6 2207 0214 Women in Politics.....	.....
6 2207 0301 American Party System .....	.....
6 2207 0302 Public Opinion & Pressure Groups .....	.....
6 2207 0303 The Politics of Development & Modernization .....	.....
6 2207 0304 State & Local Government .....	.....
6 2207 0305 Introduction to Public Administration .....	.....
6 2207 0306 Campaign Politics .....	.....
6 2207 0307 American Political Thought .....	.....
6 2207 0308 Ethnic Politics in America .....	.....
6 2207 0309 Urban Politics .....	.....

6 2207 0310	Public Administration.....	3
6 2207 0311	Governmental Budgeting.....	3
6 2207 0315	Urban Administration.....	3
6 2207 0320	Africa & Asia in World Politics.....	3
6 2207 0321	Law & Society: Civil Law.....	3
6 2207 0415	Law & Society II: Criminal Law.....	3
6 2207 0400	American Constitutional Law: The Federal System	3
6 2207 0401	American Constitutional Law: Civil Rights & Liberties	3
6 2207 0402	Government & Politics of Africa	3
6 2207 0403	Government & Politics of China and Japan	3
6 2207 0404	Government & Politics of India and South Asia.....	3
6 2207 0405	Government & Politics of the U.S.S.R.	3
6 2207 0409	Modern Political Thought.....	3
6 2207 0410	Directed Study.....	3
6 2207 0411	Black Politics in America.....	3
6 2207 0412	Government & Politics in Communist East Europe.....	3
6 2207 0416	Selected Topics in Political Science.....	3
6 2207 0420	Congressional District Internship.....	3
6 2207 0425	Politics of Federal Bureaucracy	3
6 2207 0426	Seminar & Internship in Public Administration I	4
6 2207 0427	Seminar & Internship in Public Administration II.....	4
6 2207 0429	Quantitative Analysis in Political Science	3
6 2207 0430	International Law	3

*Not to be taken by Political Science Majors

Political Science Course Descriptions

6 2207 0102 The American Political Process

Essential elements of American political life such as parties, pressure groups, public opinion and foreign affairs as they relate to the dynamics of the policy process. 3 s.h.

6 2207 0103 Institutions of American Government

The fundamentals of the U.S. Constitution, Congress, the Presidency and the Courts: their operations and interactions. 3 s.h.

2207 0200 Introduction to Politics

Government and politics in the contemporary world with particular reference to American politics and institutions. Not for Political Science Majors. 3 s.h.

2207 0201 Comparative Politics

Constitutional principles, governmental institutions and political processes of elected contemporary states with emphasis on major European governments. 3 s.h.

2207 0202 International Relations

Recent and contemporary world politics and the foreign relations and policies of elected states. 3 s.h.

2207 0203 International Organization

Political and administrative institutions of international government with emphasis on the United Nations and selected regional organizations. 3 s.h.

2207 0214 Women in Politics

The role of women in the functioning of the American political system. 3 s.h.

2207 0300 Theories in Political Science

The development of the discipline of political science; basic concepts and research

trends; the behavioral movement and post-behavioral reactions.
Prerequisite: 6 2207 0102 and 0103.*

3 s.h.

6 2207 0301 American Party System

Organization, function and practice of political parties in the U.S.; campaign functions, membership problems, political finance and policy-formation practices. 3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200*, or permission of instructor.

6 2207 0302 Public Opinion & Pressure Groups

The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process. 3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200*, or permission of instructor.

6 2207 0303 Politics of Development & Modernization

The major contemporary schools of political modernization and development theory; inter-relationship among political, social and economic variables. 3 s.h.

6 2207 0304 State and Local Government

State political systems, including their administrative and local sub-systems; Federal-state and inter-state relations; the political institutions of New Jersey. 3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200*, or permission of instructor.

6 2207 0305 Introduction to Public Administration

Literature and developments in the field of public administration; the federal bureaucracy in the policy-making process. 3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200*, or permission of instructor.

6 2207 0306 Campaign Politics

This course is taught in election years and provides the student with field experience at the local precinct or party level. 3 s.h.

6 2207 0307 American Political Thought

The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present. 3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200*, or permission of instructor.

6 2207 0308 Ethnic Politics in America

The political behavior of American ethnic groups from the Puritans to the Puerto Ricans. 3 s.h.

6 2207 0309 Urban Politics

The policies, processes, inter-relationships and organization of governments in heavily-populated areas. 3 s.h.

6 2207 0310 Public Personnel Administration

The problems and processes in the U.S. of public administration at the state and local level. 3 s.h.

Prerequisite: Introduction to Public Administration, American Government II or permission of instructor.

6 2207 0311 Governmental Budgeting

The budgetary process in governmental agencies from the perspective of political demands and influences 3 s.h.

Prerequisite: Introduction to Public Administration, American Government II or permission of instructor.

6 2207 0315 Urban Administration

Problems and policy-making in the larger urban or metropolitan complexes. 3 s.h.
Prerequisite: 6 2207 0103, 6 2207 0305 or permission of instructor.

6 2207 0401 American Constitutional Law

The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in selected cases. 3 s.h.

6 2207 0402 Government & Politics of Africa

Governmental and political development, organization and practices in Sub-Saharan Africa. 3 s.h.

6 2207 0403 Government & Politics of China and Japan

The government and politics of Japan, China and Korea in the contemporary world. 3 s.h.

6 2207 0404 Government & Politics of India & South Asia

The political experiences and institutions of the Indian subcontinent since 1947; the Republic of India; Pakistan, Ceylon and Bangladesh. 3 s.h.

6 2207 0405 Government & Politics of Latin-America

Governmental and political development, organization and practices in the state of Middle America and South America. 3 s.h.

6 2207 0406 Government & Politics of the Middle East

Government and politics in the Arab states, Turkey, Israel and Iran. 3 s.h.

2207 0407 Government & Politics of the U.S.S.R.

The political and institutional organizations of the Soviet Union; contemporary political issues; party and governmental structures.

2207 0408 Development of Political Thought to Machiavelli

elected major political philosophies from Plato and Aristotle, through to Machiavelli.

2207 0409 Modern Political Thought

elected political philosophers from Marx to the present. 3 s.h.
rerequisite: 6 2207 0408 or permission of instructor.

2207 0410 Directed Study

uniors and seniors may elect three to six credits of independent study under the direction of a member of the political science staff. 3 s.h.

2207 0411 Black Politics in America

ack participation in the American political system from the colonial period to the present. 3 s.h.

2207 0412 Government & Politics of Communist East Europe

The political and governmental organizations of the Communist countries of Eastern and Central Europe (exclusive of the U.S.S.R.); institutions, practices and ideologies including inter-regional relations. 3 s.h.

2207 0413 Afro-Asian Foreign Policies

The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era; attention will be focused on the impact of international politics and international relations of the rise to national sovereignty of Afro-Asian countries. 3 s.h.
Prerequisite: 6 2207 0303.

2207 0414 Law and Society: Civil Law

The American legal system with particular emphasis upon civil law. 3 s.h.

Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

6 2207 0415 Law and Society: Criminal Law

The American legal system with particular emphasis upon criminal law. 3 s.h.
Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

6 2207 0416 Selected Topics in Political Science

Instructor selects a political problem which is either not covered in the curriculum or which deserves more in-depth treatment than is possible in a regular course. 3 s.h.
Prerequisite: Senior Political Science Major or permission of instructor.

6 2207 0420 Congressional District Internship

Students will work as interns for one semester in the office of a U.S. congressperson or senator. During this time the duties of the intern will be coordinated by the administrative assistant in charge of the office and the course instructor. 4 s.h.
Prerequisite: 6 hours in Political Science courses related to American government Junior or senior with 3.0 average.

6 2207 0425 Politics of Federal Bureaucracy

In-depth examination of the federal bureaucracy in relationship with national, state and local agencies. 3 s.h.
Prerequisites: Introduction to Politics, American Government I or II, or permission of instructor.

6 2207 0426 and 0427 Seminar & Internship in Public Administration I & II

A one or two semester field experience in local government. Application must be made directly to the instructor in preceding semester. 5 s.h., first semester; 4 s.h., second semester

Prerequisites: Two courses in the Public Administration Minor Area or permission of the instructor.

6 2207 0429 Quantitative Analysis in Political Science

The main goal of this course will be to familiarize students with various quantitative methods used in political science research with the aim of giving them the ability to evaluate and criticize such research. A variety of quantitative techniques will be covered, ranging from simple descriptive statistics to gutman scaling to factor analysis. Students will also be given basic training in how to use canned statistic programs and basic data processing. 3 s.

6 2207 0430 International Law

The nature and place of international law in the conduct of international relations. 3 s.

*Prerequisites may be waived by instructor.

Minor in Political Science

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours credit in the above major program consisting of both required and elective courses. See department chairman or a member of the department for details.

DEPARTMENT OF PSYCHOLOGY

Professors: Seymour, Chairman; Brown, Buchner, Hauer, Rotter, Runden, Salny, Seidman

Associate Professors: Draper, Friedman, M., Garcia, Haupt, Kraemer, Krumacher, Perera, Sugarman, Williams, Worms

Assistant Professors: Aronow, Badin, Cicerone, Danielson, Hoover, Duryea, Friedman, S., Garibaldi, Goodkin, Herman, Kantor, Koppel, LeMay, Locher, O'Connell, Schwartz, Siiter, Townsend, Unger

Instructors: Cheu, Olson

Undergraduate courses in psychology: 1) provide a sound basis for later professional or graduate training in psychology; 2) satisfy the needs of students, majors and non-majors, who are interested in psychology primarily as part of a broad liberal education; 3) provide psychological principles and techniques as intellectual tools for work in other social and biological sciences, and in professional fields such as social work, journalism, business and law; and 4) provide courses for future teachers, as described by the School of Education and required for teacher certification in the State of New Jersey.

Psychology Major

Requirements

	semester hours
7 2001 0101 General Psychology I: Growth and Development	3
7 2001 0105 General Psychology II: An Experimental Approach.....	3
7 2001 0110 Quantitative Methods in Psychology	3
7 2001 0215 Experimental Psychology	4

Electives: 21 hours from the following with at least one course each from one, two, and three-starred groups:

7 2001 0109 Man and His Environment	3
7 2001 0200 Educational Psychology.....	3
7 2001 0201 Child Psychology	3
7 2001 0202 Adolescent Psychology	3
7 2001 0210 Psychology of Individual Differences	3
7 2001 0218 Experimental Analysis of Human Behavior	4
7 2001 0225 Psychology of Adjustment.....	3
7 2001 0227 Psychological Aspects of Human Sexuality	3
7 2001 0255 Environmental Psychology	3
7 2001 0270 Industrial and Organizational Psychology	3
7 2001 0280 Introduction to Community Psychology	3
*7 2001 0300 Teaching of Psychology.....	3
*7 2001 0302 Psychology of Women	3
*7 2001 0303 Psychosocial Aspects of Aging	3
**7 2001 0310 Psychological Tests and Measurements	3
**7 2001 0320 Psychology of the Handicapped	3
**7 2001 0325 Psychology of the Gifted	3
**7 2001 0328 Abnormal Psychology	3
**7 2001 0332 Psychological Foundations of Personality	3
**7 2001 0335 Social Psychology	3
**7 2001 0340 Verbal Learning and Memory.....	3
**7 2001 0342 Principles of Conditioning and Learning	3
**7 2001 0343 Comparative Psychology	3
**7 2001 0348 Psycholinguistics	3
**7 2001 0350 Physiological Psychology	3
**7 2001 0352 Perception	3
**7 2001 0355 Motivation	3
**7 2001 0360 History and Systems of Psychology	3
**7 2001 0370 Psychological Aspects of Consumer Behavior	3

*7 2001 0379	Psychology and Literature	3
***7 2001 0380	Externship in Community Psychology	3
***7 2001 0383	Psychology of Aggression	3
7 2001 0400	Seminar in Psychology	2
7 2001 0402	Social Role of Psychotherapies	2
*7 2001 0405	Psychological Anthropology	2
7 2001 0442	Curriculum and Methods in Sex Education	2
7 2001 0446	Today's Woman	2
7 2001 0463, 0464	Psychological Foundation of Music I, II	2 ea
7 2001 0491, 0492	Independent Study I, II	1-3 ea

General Psychology Minor Program

A.	Required Courses	6 s.h.
	7 2001 0101 General Psychology I	3
	7 2001 0105 General Psychology II	3
B.	Psychology Electives (300 level or above)	6
C.	Psychology Electives	6

REQUIRED MINIMUM FOR MINOR 18 s.t.

Minor in Community Psychology

The Psychology Department has developed a course concentration in Community Psychology. Community Psychology refers to the concept of bringing psychological techniques, services and methods to indigents of the community, and of rendering aid in on-going social problems. It focuses on intervention, behavioral changes and dysfunctional behavior considered in the context of the immediate environment and of the effect on the community as well as the individual. The program provides the groundwork for further training in law, political science, anthropology, psychology, sociology, economics, social studies, education and other disciplines. It can also lead to para-professional work within the community.

A. Requirements		semester hours
7 2001 0101	General Psychology I: Human Growth & Development	
7 2001 0280	Introduction to Community Psychology	
7 2001 0380	Psychology and Community Services	
B. Core Courses — 9 semester hours		
7 2001 0225	Psychology of Adjustment	
7 2001 0227	Psychological Aspects of Human Sexuality	
7 2001 0255	Environmental Psychology	
7 2001 0302	Psychology of Women	
7 2001 0335	Social Psychology	
7 2001 0370	Psychological Aspects of Consumer Behavior	
7 2001 0383	Psychology of Aggression	
7 2001 0405	Psychological Anthropology	
7 2001 0491, 0492	Independent Study	
C. Multidisciplinary Courses — 3 semester hours		
The following are suggestions only. Appropriate choice will be made with advice from all Departments concerned.		
4 2206 0462	Urban Geography	
5 2205 0462	People and Cities	
6 2207 0309	Urban Politics	
8 2208 0306	Patterns of Community	
W 0837 0301	Addictions and Dependencies	
X 1301 0419	Special Studies in Family and Child Services	

REQUIRED TOTAL

Psychology

Course Descriptions

7 2001 0101 General Psychology I: Growth and Development

Psychology as an *applied* behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting. 3 s.h.

7 2001 0105 General Psychology II: An Experimental Approach

Psychology as an experimental and research oriented science; experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory. 3 s.h.
Prerequisite: 7 2001 0101.

2001 0109 Man and His Environment

Interdisciplinary with Geography; man's modification and understanding of the environment; future human and environmental projections. 3 s.h.

2001 0110 Quantitative Methods in Psychology

Descriptive statistics and statistical inference; application of statistical tools in testing and research. Logic of statistics; organization and presentation of statistical data; measures of central tendency, variability, and relative position; probability and the normal curve; measures of correlation, parametric and nonparametric; tests of significance. Students who have not completed Algebra I should contact the instructor about the possibility of preparation for this course. 3 s.h.
Prerequisite: 7 2001 0101.

2001 0200 Educational Psychology

Required for teaching. Child and adolescent development; fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating teaching-learning, creativity. 3 s.h.
Prerequisite: 7 2001 0101.

2001 0201 Child Psychology

Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through literature and intensive study of individual children. 3 s.h.
Prerequisite: 7 2001 0101.

2001 0202 Adolescent Psychology

Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment; problems of adolescents with practical application to oneself and others. 3 s.h.
Prerequisite: 7 2001 0101.

7 2001 0210 Psychology of Individual Differences

The problems, methods and results of differential psychology. 3 s.h.
Prerequisite: 7 2001 0101.

7 2001 0215 Experimental Psychology

Laboratory methods of research in motivation, perception and learning; design and execution of exploratory investigations. Two lectures and four hours of laboratory work. 4 s.h.
Prerequisite: 7 2001 0110.

7 2001 0218 Experimental Analysis of Human Behavior

Applications of operant conditioning methods to practical human problems primarily to handicapped children and adults; laboratory exercises and experiments. May include increasing and decreasing frequency, successive approximations, and teaching of complex behaviors through discrimination, fading and chaining procedures. Two lectures and four laboratory hours.

4 s.t

Prerequisite: 7 2001 0105.

7 2001 0225 Psychology of Adjustment

Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc.

3 s.t

Prerequisite: 7 2001 0101.

7 2001 0227 Psychological Aspects of Human Sexuality

Behavior and attitudes influenced by basic sexuality; widens perspectives to aid decision-making. Developmental periods and sexual relationships; connection between psychological theory and sexual mores; genetic understandings.

3 s.

Prerequisite: 7 2001 0101. One basic psychology course is necessary for work in this area..

7 2001 0255 Environmental Psychology

The influence of the physical environment on the behavior of organisms: population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.

3 s

Prerequisites: 7 2001 0101 and permission of the instructor.

7 2001 0270 Industrial and Organizational Psychology

Psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, job selection, motivation, executive leadership. Commonly-used selection tests evaluated.

3 s

Prerequisite: 7 2001 0101.

7 2001 0280 Introduction to Community Psychology

Integration of social psychology with mental health in resolution of community problems. Social psychological theories and empirical strategies used to study dynamics of power, membership, change and deviance. Roles of community psychologists; mental health center.

3

Prerequisite: 7 2001 0101.

7 2001 0300 The Teaching of Psychology

Objectives, content, procedures and evaluation of teaching psychology, from kindergarten through junior college. Organization of classroom activities, lesson planning, techniques of motivation, multisensory aids and applications of principles to classroom situations. Observation and participation in classroom activities preparation for student teaching.

3

Prerequisites: 7 2001 0101 and 7 2001 0200.

7 2001 0302 Psychology of Women

Contemporary issues in the psychology of women (an opportunity for original research). Theoretical positions and recent research in the area.

3

Prerequisite: Six credit hours in psychology (some knowledge of the content area and methodology of psychology is required).

7 2001 0303 Psychosocial Aspects of Aging

Overview of later maturity and aging emphasizing psychological and social aspects.

and processes; problems, issues, needs of the aging. Field experiences. 3 s.h.
 Prerequisite: 7 2001 0101 and 7 2001 0201 and 7 2001 0202 or equivalent.

7 2001 0310 Psychological Test and Measurements

Tests of intelligence, aptitude, achievement and personality; principles of psychological testing; approaches to test construction. 3 s.h.

Prerequisite: 7 2001 0110

2001 0320 Psychology of the Handicapped

Current practices and problems of exceptional children and youth. The unique needs of individuals with handicaps of intellectual, sensory, motor, neurological, social and emotional origin. Analyses of case materials applied to the psychology of exceptionality. 3 s.h.

Prerequisite: 7 2001 0101.

2001 0325 Psychology and Education of the Gifted

Study of recent literature and research of intellectually and creatively gifted individuals, including children. Emphasis on discovery, motivation, characteristics and special problems of giftedness. Case studies of gifted historical figures. Extensive reading on major themes of the course. 3 s.h.

Prerequisites: 7 2001 0101, and 7 2001 0105 or 7 2001 0201.

2001 0328 Abnormal Psychology

Syndromes and psychopathological processes: neuroses, psychoses and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures. 3 s.h.

Prerequisite: 7 2001 0105 and either 7 2001 0225 or 0450.

2001 0332 Psychological Foundations of Personality

Current approaches and theories of personality development and organization. 3 s.h.
 Prerequisite: 7 2001 0105.

2001 0335 Social Psychology

Social behavior of the individual and the group. Social perception, motivation and learning; attitudes and values; development and dynamics of social groups; intergroup tension and prejudice; mass phenomena; psychological approaches to social issues. 3 s.h.

Prerequisite: Three semester hours in psychology.

2001 0340 Verbal Learning: Memory

Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man. 3 s.h.

Prerequisite: 7 2001 0105.

2001 0342 Principles of Conditioning and Learning

Experimental analysis of the major phenomena of learning and conditioning mainly at the animal level. Theoretical issues and some major theories of learning. Students may study selected topics more extensively. 3 s.h.

Prerequisite: 7 2001 0215 or permission of the instructor.

2001 0343 Comparative Psychology

Experimental and field studies of behavior in selected animal species with particular reference to the behavior of vertebrates. Detailed study of instinctive behavior and imprinting; respondent and operant behavior; procedures and variables in acquiring new forms of behavior. 3 s.h.

Prerequisite: 7 2001 0215 or permission of the instructor.

2001 0348 Psycholinguistics

The study of language through linguistic behavioral and cognitive methods. Basic

linguistic ideas used for the explication of problems in grammar, cognitive structure, semantic meaning and speech production and comprehension. 3 s.h.

Prerequisites: 7 2001 0105 or permission of instructor.

7 2001 0350 Physiological Psychology

Anatomical, neural and biochemical bases of behavior. Localization of function, neurohormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality. 3 s.h.

Prerequisites: 7 2001 0105 or permission of the instructor.

7 2001 0352 Perception

The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness. 3 s.h.

Prerequisite: 7 2001 0215 or permission of the instructor.

7 2001 0355 Motivation

The concepts of instincts, homeostasis, drive, reinforcement, arousal and inceptior are analyzed with reference to data drawn from many areas of experimentation primary emphasis on the experimental, rather than the theoretical literature motivational concepts relevant to human and animal research. 3 s.h.

Prerequisites: 7 2001 0105 and 6 additional hours in psychology.

7 2001 0360 History and Systems of Psychology

Historical development of psychology; comparative analysis of the major schools o contemporary psychology; new trends and movements in psychological theory. 3 s.h.

Prerequisites: 7 2001 0105 and 6 additional semester hours in Psychology. (Not including 7 2001 0100.)

7 2001 0370 Psychological Aspects of Consumer Behavior

Applications of the science of psychology to consumerism, consumer protection questionnaire construction and opinion surveys, marketing and advertising. 3 s.h.

Prerequisite: 7 2001 0110 or 7 2001 0270 or 7 2001 0335.

7 2001 0379 Psychology and Literature

Terminology and techniques of modern depth psychologies—Freudian, Jungian, Adlerian—to illuminate the literary portrayal of human character in masterpieces of world literature; study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children. 3 s.h.

Prerequisite: 6 semester hours in Psychology or English.

7 2001 0380 Externship in Community Psychology

Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective student participation will require a three hour block of time in order to serve directly in a community setting. 3 s.h.

Prerequisites: 7 2001 0101 and 7 2001 0280 or written permission of instructor.

7 2001 0383 Psychology of Aggression

The root causes of violence in America. "There is no more crucial domestic problem, no more searching, dilemma than that of violence in urban areas. Our most sensitive domestic issues center around poverty, frustration, the police and racial conflict."

Prerequisites: 7 2001 0101, 7 2001 0110, 7 2001 0225. 3 s.h.

7 2001 0400 Seminar in Psychology

Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only. 3 s.h.

Prerequisites: 7 2001 0101, 7 2001 0215, 7 2001 0110.

7 2001 0402 Social Role in Psychotherapies (also listed as 2208 0402)

The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements. Cross-listed with Sociology. 3 s.h.
Prerequisites: two courses in Psychology.

7 2001 0405 Psychological Anthropology

Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants. 3 s.h.
Prerequisites: 7 2001 0101, 2202 0100.

7 2201 0442 Curriculum and Methods in Sex Education

Developing curricula to fit individual schools; implementation demonstrated; current texts and audio-visual materials analyzed. 3 s.h.

7 2001 0446 Today's Woman

Advanced lecture-discussion of history and current status of woman's liberation movement; man's reaction; achievement motive; witch trials; black woman; Eastern and Western woman; other selected topics. 3 s.h.

7 2001 0463 Psychological Foundations of Music I (also listed as 1017 0463)

Inter-relations of physical and psychological aspects of music; perception of music, experimental aesthetics, measurements and diagnosis of musical ability. Research methods in the study of musical phenomena. Independent research. 2 s.h.
Prerequisite: three courses in Psychology and instructor's permission.

7 2001 0464 Psychological Foundations of Music II (also listed as H 1017 0464)

Continuation of 2001 0463.

2001 0491 Independent Study I**2001 0492 Independent Study II**

Individual project under close supervision of a faculty member.

1-3 s.h. ea.

Prerequisite: Permission of instructor.



DEPARTMENT OF SOCIOLOGY

Professors: Alloway, Pratt

Associate Professors: Kim, McGuire

Assistant Professors: Chasin, Foss, Freund, Gordon, Hadis, Kurzweil, Klajman, Livingston, Martin, Chairman; Rubin.

Sociology is centrally concerned with the questions: What is the nature of social existence? What is the relationship between people and social institutions? How are these institutions structured and related to one another? The discipline attempts to develop a systematically-reasoned and empirically-based understanding of the social group as the ground for human existence. The course should explore particular facets of the social structure, e.g., power, religion, social class, etc. Students develop a clearer understanding of the nature of society and of our society in particular. Additionally, they grasp the ways of developing systematic and verified knowledge about societies and their functioning. Finally, insight into the conversion of knowledge into action will result.

The program in sociology serves students of several different interests. One group will enter graduate work in sociology and go on to a sociologically-based career, including advancement of the discipline. A second group will enter professional schools for which a foundation in sociology is recommended. The third group, planning a terminal program, concentrates in sociology for whatever utilities it has for them. The fourth group are the students in a general education preparation in sociology. Finally the program serves the general education and distribution requirements of the student majoring in some other field.

Four Areas of Specialization

Each student is advised to select one of the following concentrations:

A. Sociological

The specialization is most suitable for students considering graduate work in Sociology and for students seeking a terminal program designed to produce a systematic understanding of the structuring and functioning of society.

B. Interdisciplinary

This concentration is for a student seeking a dual major in related fields, or one seeking from 15 to 18 credits in a cognate field, such as sociology and philosophy, sociology and anthropology, sociology and the arts, or sociology and recreation-sports. The sociology department is participating with the departments of fine arts, music and speech-theater in interdisciplinary studies in urban cultural development. The student may organize a program and have it approved, or may participate in an existing plan.

C. Pre-Professional

Careers utilizing a sociological background include teaching, marketing, public opinion research, social work, crime prevention, voluntary group work and recreation management. Sociology is a good foundation for careers in law and the helping professions. Graduate work in the career field would generally be needed. Consortium arrangements are made with education centers, government at local, national and world levels and professional agencies.

D. Applications of Sociology and Social Action

This concentration is for students primarily concerned with the problem of converting knowledge into action. This may be in regard to fundamental social issues such as inequality, freedom of expression and action, violence and conflict, coercion, privacy and autonomy and others. On the other hand it could be in regard to direct social work action. The approval may range from policy analysis and formation to program execution.

SPECIAL LEARNING OPPORTUNITIES

The department encourages students to include in their programs a reasonable amount of off-campus learning, such as study abroad or at specialized centers in the United States, a semester at another institution, work-study arrangements, credit by examination and intern or extern program arrangements. The department urges students to select the individual program-planning option.

Sociology Major

	semester hours
Required Courses	12
Select one course from each section below:	
Theory: 8 2208 0312 Sociological Theory: Heuristic Approach	3
8 2208 0313 Sociological Theory: Critical Analysis	3
8 2208 0411 Selected Topics in Sociological Theory	3
Methodology: 8 2208 0210 Statistics for Social Research	3
8 2208 0301 Sociological Research Methods	3
8 2208 0412 Selected Topics in Sociological Research Methods	3
Advanced Course: 300 or 400 level course with appropriate approval	3
Action Course: A three-semester hour action course, selected from:	
8 2208 0330 Externship in Sociology	3
(may be in a campus organization)	
8 2208 0333 Community Organization in the Arts	3
8 2208 0410 Social Action Practicum	3
8 2208 0414 Selected Topics in Applied Sociology	3
Minimum of 24 s.h. to be selected from the following:	
8 2208 0100 Sociological Perspectives	3
8 2208 0101 Criminology	3
8 2208 0112 Sociology of Leisure	3
8 2208 0113 Social Problems	3
8 2208 0200 Sociology of Education	3
8 2208 0202 Racial & Ethnic Relations	3
8 2208 0203 Sociology of Organized Crime	3
8 2208 0204 Sociology of the Family	3
8 2208 0205 Black Family	3
8 2208 0206 Individual and Society	3
8 2208 0210 Statistics for Social Research	3
8 2208 0211 Sociology of Health and Illness	3
8 2208 0212 Sociology of Social and Technical Change	3
8 2208 0213 Social Stratification	3
8 2208 0214 Sociology of Violence and Conflict	3
8 2208 0231 Social Bases of the Arts	3
8 2208 0300 Externship in Sociology	3
8 2208 0301 Sociological Research Methods I	3
8 2208 0302 Sociological Research Methods II	3
8 2208 0303 Large Scale Organizations	3
8 2208 0304 Sociology of Work and the Professions	3
8 2208 0305 Demography	3
8 2208 0306 Patterns of Community	3
8 2208 0307 City and the Arts	3
8 2208 0308 Sociology of Constructive Voluntary Action	3
8 2208 0309 Voluntary Organizations in American Life	3
8 2208 0310 Directed Independent Research	3
8 2208 0311 Urban Sociology	3
8 2208 0312 Sociological Theory: Heuristic Approach	3
8 2208 0313 Sociological Theory: Critical Analysis	3
8 2208 0320 The Sociology of Intentional Communities	3

8 2208 0321	White Collar Crime	3
8 2208 0330	Political Sociology	3
8 2208 0331	Sociology of Power	3
8 2208 0332	Sociology of Popular Arts	3
8 2208 0333	Community Organization in the Arts	3
8 2208 0334	Comparative Social Systems	3
8 2208 0335	Workers and Their Organizations	3
8 2208 0336	The Sociology of Helping Professions and Institutions	3
8 2208 0337	Methods and Techniques in the Helping Professions	3
8 2208 0341	Sociology of Poverty and Welfare	3
8 2208 0401	Social Structure of American Society	3
8 2208 0402	The Social Role of Psychotherapies	3
8 2208 0403	Sociology of Knowledge	3
8 2208 0404	Sociology of Religion	3
8 2208 0405	Deviance and Social Control	3
8 2208 0406	Sociology of Small Groups	3
8 2208 0407	Sociology of the Mass Media	3
8 2208 0408	Social Movements	3
8 2208 0410	Social Action Practicum	3
8 2208 0411	Selected Topics in Sociological Theory	3
8 2208 0412	Selected Topics in Social Research Methods	3
8 2208 0413	Selected Topics in Institutional Processes	3
8 2208 0414	Selected Topics in Applied Sociology	3
8 2208 0420	Sociology of Law	3
8 2208 0421	The Social Uses of Language	3
8 2208 0422	Sociology and Philosophy	3
8 2208 0425	Sociology of the Future	3
8 2208 0430	Sociology of Sex Roles	3

Sociology Course Descriptions

8 2208 0100 The Sociological Perspective

A systematic introduction to various sociological explanations of human behavior. Not to be taken as an elective toward the Sociology major. 3 s.t.

8 2208 0101 Criminology

Crime, the administration of criminal justice and criminal rehabilitation in America society. Cause and effect relationships in criminal deviancy, use of law in social control; and police and minority group relations. 3 s.t.

8 2208 0112 Sociology of Leisure

Leisure as a social problem, work and leisure, the use of leisure time in modern society. 3 s.t.

8 2208 0113 Social Problems

How social structure and dominant social institutions are related to problems of great concern to people; various approaches to the study of social problems; their implications of each. 3 s.t.

8 2208 0200 Sociology of Education

The entire socialization process; the school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; the implications of traditionally sacrosanct roles and statuses inherent in education. (Not to be used for teacher certification requirement.)

8 2208 0202 Racial and Ethnic Relations

The social meaning of race and ethnicity. The social, psychological and structural

sources of racism; the consequences of this phenomenon to groups; situation and comparative data. 3 s.h.

8 2208 0203 Sociology of Organized Crime

Organized crime as a sociological phenomenon; the methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem. 3 s.h.

8 2208 0204 Sociology of the Family

The family from a comparative and historical perspective; the structure and role of the family in contemporary society. 3 s.h.

8 2208 0205 Black Family

The black family in American society; historical perspectives and contemporary conflicts surrounding the black family. 3 s.h.

8 2208 0206 Individual and Society

Man as a biological, psychological and social being; the socialization process and its effect on the individual; the structure and function of groups. 3 s.h.

8 2208 0210 Statistics for Social Research

The use of descriptive summary and comparative techniques; tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.) 3 s.h.

8 2208 0211 Sociology of Health and Illness

Social conceptions of physical and mental health and illness; the social role of the "sick"; comparative medical beliefs and practices in American society; medical institutions and care; medical personnel and professional ideologies; the relationship between social stratification and health and illness. 3 s.h.

8 2208 0212 Sociology of Social and Technical Change

The statics and dynamics of modern societies; institutional development and maintenance; possibilities for reform and revolutionary movements. 3 s.h.

8 2208 0213 Social Stratification

The inequalities of social ranking systems in virtually all known societies; theoretical and empirical approaches of stratification; delineating the variables of power; power elites, class consciousness, alienation and class mobility. 3 s.h.

8 2208 0214 Sociology of Violence and Conflict

The social sources of violence and conflict; the sociological approach contrasted with biological and psychological ones; interpersonal and institutionalized violence and conflict; the relationship between conflict and violence; types of violence and conflict, war, crime, class conflict and ethnic and racial hostilities. 3 s.h.

8 2208 0231 Social Bases of the Arts

The impact of social forces and institutions of the fine, performing and decorative arts; the social importance and functions of the several arts. 3 s.h.

8 2208 0300 Externship in Sociology

Students will select an institution in the metropolitan area in which to become participant-observer. Application of a sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester election permitted with approval. 3 s.h.

2208 0301, 0302 Sociological Research Methods I, II

The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science. 3 s.h.

Prerequisite: Taken serially. (It is recommended that 8 2208 0210 be taken before 8 2208 0301.)

8 2208 0303 Large Scale Organizations

The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.

3 s.h.

8 2208 0304 Sociology of Work and Professions

The meaning of work in society; professionalization; occupation ideologies; social-psychological aspects of attitudes toward work and specific occupations; occupational stratification; social structures within which work takes place.

3 s.h.

8 2208 0305 Demography

Problems of population and demographic change; social and psychological foundation of fertility in the contexts of social class and religious ideologies; the impact of urbanization; the uses of demographic data. Transcultural studies, racial differences and ecological factors.

3 s.h.

8 2208 0306 Patterns of Community

Urban, suburban, rural, regional, national and international communities; comparison, contrast and synthesis of the sociological research in these areas.

3 s.h.

8 2208 0307 The City and the Arts

The arts in the functioning of the city; cityscape and its social meanings; functions of the various arts in large cities; impact of city types upon the arts; city cultural sub-groups and the arts.

3 s.h.

8 2208 0308 Sociology of Constructive Voluntary Action

Patterns of behavior that exceed normative expectations and the extent of such behavior under circumstances such as war, individual and community disaster, intensive social action periods and non-crisis periods. Contemporary social action processes, such as civil rights and black power movements, national service programs and international service projects.

3 s.h.

8 2208 0309 Voluntary Organizations in American Life

Voluntary organizations in society, comparative study of profit-making and non-profit making organizations and comparison of voluntary organization in democratic and non-democratic nations.

3 s.h.

8 2208 0310 Directed Independent Research

Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.

3 s.h.

8 2208 0311 Urban Sociology

Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers.

3 s.h.

Prerequisites: 8 2208 0100 and 8 2208 0206.

8 2208 0312 Sociological Theory: A Heuristic Approach

The nature of sociological theory: how an understanding of social phenomena is possible, how sociological theory develops, what pre-suppositions it is based on, and how different perspectives on social reality can be used by the student of sociology.

3 s.h.

8 2208 0313 Sociological Theory: A Critical Analysis

A comparison of important theories on key themes in sociology: the nature of social interaction, the definition of power, stratification, social control and deviance.

alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change. 3 s.h.

8 2208 0320 The Sociology of Intentional Communities

The Sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. 3 s.h.

8 2208 0321 White Collar Crime

An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S. as well as its social, political and economic impact on the nation. 3 s.h.

Prerequisite: 2208 0101 Criminology.

8 2208 0330 Political Sociology

This course will endeavor to give the undergraduate student a relatively complete understanding of the social dynamics of political actions on various levels. 3 s.h.

8 2208 0331 Sociology of Power

The nature of power; power on the national level in the United States; alternative theoretical approaches; the historical origins of several of these theories. 3 s.h.

8 2208 0332 Sociology of Popular Arts

Components of entertainment including paperback and magazine fiction, movies, theater and popular music; the audiences, content, performers, managers and owners. 3 s.h.

8 2208 0333 Community Organization in the Arts

A case study approach, including field work in a laboratory community, will be used to analyze community structure in the arts on local level. Topics will include the social forces in the local arts council movement, the amateur and semi-professional arts groups in fine, performing, and decorative arts, the community concert society, social correlates to local participation, and home arts. 3 s.h.

8 2208 0334 Comparative Social Systems

Comparative sociological schemes; the analytical blocks of total society; kinship, family and marriage; policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations. 3 s.h.

8 2208 0335 Workers and their Organizations

The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important consideration. The course will focus on current realities and forces, and on work as it is today for both organized and non-union situations, with an eye to understanding the social dynamics of an entire social class. 3 s.h.

8 2208 0336 The Sociology of Helping Professions and Institutions

This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients. 3 s.h.

Prerequisite: 8 2208 0100; 8 2208 0206 or other with consent of instructor.

8 2208 0337 Methods and Techniques in the Helping Professions

This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need. 3 s.h.

Prerequisite: 8 2208 0100; 8 2208 0206 or other with consent of instructor.

8 2208 0341 Sociology of Poverty and Welfare

Poverty and welfare institutions as social phenomena; the meaning of poverty; absolute and relative deprivation; the functions of social welfare institutions. 3 s.h.

8 2208 0401 Social Structure of American Society

Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society. 3 s.h.

8 2208 0402 Sociology of Psychotherapies in America

Various psychotherapies, from classical Freudian to encounter groups in relation to existing culture and to the feasible application of these therapies. 3 s.h.

Prerequisite: Psychology or Sociology major (Jr. or Senior Only) or permission.

8 2208 0403 Sociology of Knowledge

The social origins of anything considered to be knowledge in a given social environment. 3 s.h.

8 2208 0404 Sociology of Religion

The social bases of religious belief and activity; religious movements denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons. 3 s.h.

8 2208 0405 Deviance and Social Control

Various theoretical perspectives on human deviance; the inter-action of the forces of social control and "deviant" behavior. 3 s.h.

8 2208 0406 Sociology of Small Groups

To familiarize the student with the necessary theoretical perspectives for the analysis of individual and group behavior, both those specific to small groups and those of a more sociological and psychological nature. 3 s.h.

Prerequisite: 8 2208 0206.

8 2208 0407 Sociology of The Mass Media

The social aspects of the organization and functioning of television, radio, press, magazines, film and other media. The media in social control, in information and other communication, and as forces influencing behavior. 3 s.h.

8 2208 0408 Social Movements

This course focuses on the study of concerted collective behavior for social change or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples of social movement activity. 3 s.h.

Prerequisite: 8 2208 0100 or 8 2208 0206 or other with consent of instructor.

8 2208 0410 Social Action Practicum

Students, individually or in groups, design and implement field research and activities with an explicit, culturally defined objective, as an exercise in "applied sociology." 3-9 s.

8 2208 0411 Selected Topics in Sociological Theory

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. 3 s.h.

8 2208 0412 Selected Topics in Sociological Research Methods

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. 3 s.h.

8 2208 0413 Selected Topics in Institutional Processes

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. 3 s.h.



selected more than once with approval.

3 s.h.

2208 0414 Selected Topics in Applied Sociology

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval.

3 s.h.

2208 0418 Professional Criminals, Organized Crime, and Crime Control

An examination of the various kinds of criminal professions, how they are utilized by organized criminal syndicates as well as practiced in a non-syndicated manner, and an outline of the modern sophisticated, detection techniques and resources employed by law enforcement to suppress such activities.

3 s.h.

2208 0420 Sociology of Law

The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

3 s.h.

Prerequisite: 8 2208 0100.

2208 0421 The Social Uses of Language

To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

3 s.h.

2208 0422 Sociology and Philosophy

The philosophical roots, as well as the relevance of philosophy for the sociological enterprise will be major theme. An emphasis will also be placed on the contributions that sociology may offer to the task of "philosophizing."

3 s.h.

Prerequisites: 8 2208 0312 or 8 2208 0313 or permission of the instructor.

2208 0425 Sociology of the Future

An examination of the study of probable effects of alternative futures to American society. This course will examine, also, the manner in which such alternatives are studied; the role of prediction by scientific means, and the use of probabilities in projecting the outline of our society in the near and great future.

3 s.h.

Prerequisites: Completion of at least 18 hours of work in one of the social sciences, including a research and theory course, or permission of the instructor.

2208 0430 Sociology of Sex Roles

The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion: special emphasis is placed on the impact of social change on sex roles in contemporary society.

3 s.h.

OFFICERS**President**

DAVID W. D. DICKSON; BA, Bowdoin College; MA, PhD, Harvard University

Vice President for Academic Affairs

IRWIN H. GAWLEY, Jr.; BA, MA, Montclair State College; EdD, Columbia University

Vice President for Administration and Finance

ELLIOT I. MININBERG; BA, University of Bridgeport; MA, PhD, New York University

Vice President for Academic Services

ROBERT E. MacVANE; BA, MEd, Springfield College

Academic Deans**School of Educational and Community Services**

ERCELL I. WATSON; BA, Delaware State College; BA, Howard University; EdD, University of Pennsylvania; LLD, Delaware State College

School of Fine and Performing Arts

DONALD M. MINTZ; BA, PhD, Cornell University; MFA, Princeton University

School of Humanities

WOLFGANG B. FLEISCHMANN; BA, St. John's College; MA, PhD, University of North Carolina at Chapel Hill

School of Mathematics and Science

RICHARD A. LYNGE; BA, Hamilton College; PhD, Iowa State University

School of Professional Arts and Sciences

HOUSTON G. ELAM; BS, MS, Pennsylvania State University; PhD, New York University

School of Social and Behavioral Sciences

PHILIP S. COHEN; BS, MA, PhD, New York University; Degree Supérieur, University of Paris

Graduate Studies

CARL SCHNEIDER; BA, Oberlin College; PhD, University of Wisconsin

Dean of Students

LAWTON W. BLANTON, Jr.; BS, MA, University of Florida

DEPARTMENT OF ADULT CONTINUING EDUCATION

RAY J. AST; BS, State University College of New York, Buffalo; MS, State University of New York at Albany

JOANN BERG; BA, State University of New York, Oneonta; MA, Teacher's College, Columbia University

WARREN S. CEURVELS; BA, Newark State College; MA, Montclair State College

MARY E. CURRAN; BS, Lowell State College; MEd, University of Louisville; PhD, University of Connecticut

KATHY L. MANKO; BA, MA, Montclair State College

FRANCES M. SPINELLI; BA, MA, George Washington University

RICHARD O. TAUBALD; BA, Hope College; MA, Montclair State College

**SCHOOL OF EDUCATIONAL AND COMMUNITY SERVICES
CURRICULUM AND TEACHING**

JOHN BARELL; AB, Harvard University; MA, C University of New York; EdD, Columbia University

CATHERINE A. BECKER; BA, MA, Montclair State College; PhD, New York University

SUSIE B. BOYCE; BA, Florida State University; MA, Tulane University; EdD, Rutgers University

RAYMOND A. DISPOTO; BS, Fordham University; MA, Jersey City State College, EdD, Rutgers University

SHEILA FAGES; BEd, University of South Florida; MEd, University of Miami

JOSEPH T. FLAGG; BA, MA, Montclair State College; EdD, Rutgers University

NICHOLAS M. MICHELLI; BA, Montclair State College; MA, New York University; EdD, Columbia University

ROBERT A. PINES; BS, Monmouth College; MA, Rutgers University; EdD, University of Miami

ANITA E. UHIA; BA, Fairleigh Dickinson University; MA, Montclair State College

JOSEPH L. VENTURINI; BA, Glassboro State College; MEd, EdD, Rutgers University

EDUCATIONAL FOUNDATIONS

GEORGE BERNSTEIN; BA, Rutgers University; EdD, Teachers College, Columbia University

MARY E. BREDEMEIER; BS, Madison College; Columbia University; EdD, Rutgers University

FRANCESCO CORDASCO; BA, Columbia University; MA, EdD, New York University

MYRNA A. DANZIG; BA, Cornell University; MEd, Radcliffe College

THUNDER HAAS; BS, MA, Seton Hall University; EdD, Rutgers University

ANN SHARP; BA, College of New Rochelle; Catholic University of America; EdD, University of Massachusetts

EDUCATIONAL LEADERSHIP

CATHERINE ANELLI; BA, Immaculata College; MA, University of Pennsylvania

LAURENCE BALLAGAMBA; BS, MA, New York University; EdD, Columbia University

JOSEPH F. BRUNNER; BA, MA, Jersey City State College; EdD, University of Massachusetts

ANNE C. CASTENS; BA, MA, Montclair State College; EdD, Rutgers University

WILLIAM A. CUFF; BA, Adelphi University; MA, George Washington University

JULIA DUTKA; BA, Hong Kong University; MA, Teachers College, Columbia University

GEORGE D. HEISS; BA, Pennsylvania State University; EdM, University of Maryland; PhD, Rutgers University

PAUL W. JOHNSTON; BA, Columbia University; New York University; MS, Southern Conn State College; PhD, New York University

GERHARD LANG; BS, MA, City University of New York; PhD, Columbia University

FRANK P. MERLO; BA, MA, Montclair State College; EdD, Rutgers University

WENDY G. OXMAN; BA, Brandeis University, MA, Yeshiva University; PhD, Fordham University

GROSVENOR RUST; AB, Wheaton College; AM, PhD, University of Chicago

MARIA E. SCHANTZ; BS, Jersey City State College; MA, Montclair State College; EdD, Columbia University

DIANA J. STONE; BA, Adelphi College; MA, Montclair State College

DAVID E. WEISCHADLE; BA, EdM, EdD, Rutgers University

STUDENT PERSONNEL SERVICES

DONALD B. GREGG; BA, MA, Montclair State College; EdD, Lehigh University

RICHARD A. GREY; BS, Winston-Salem Teachers College; MA, Montclair State College; EdD, Fordham University

BRAHAM GELFOND; BS, Rutgers University; MA, PhD, New York University

LFRID H. GORMAN; BS, MA, New York University; EdD, Columbia University

AWRENCE B. HAMEL; BA, St. John's University; MA, Boston University; PhD, St. John's University

AWRENCE B. KENYON; BA, DePauw University; MA, New York University, EdD, University of Colorado

GEORGE G. KING; AA, Monmouth College; BA, MA, Montclair State College; EdD, Rutgers University

HOMAS MILLARD; AB, Rutgers University; MA, SW, Third Year Certificate, Columbia University; MA, New York University; EdD, Fairleigh Dickinson University

EDWIN MILLS; BA, Bob Jones University; MEd, Florida Atlantic University

DOLA J. TALLEY; BJournal, University of Texas; MA, University of Rhode Island; PhD, Boston University

TE H. TETENS; BS, Union College; MA, Columbia University

ILENE UNGER-KING; BA, New York University; MA, Montclair State College; PhD, Fordham University

BERT B. WILLIAMS; BA, Occidental College; EdD, Rutgers University

SCHOOL OF FINE AND PERFORMING ARTS

FINE ARTS

TER G. BARNET; BA, MA, EdD, New York University

JHN CARTER; BA, MA, University of California at Los Angeles

ANNE CHAPMAN; BFA, Cleveland Institute of MFA, Cranbrook Academy of Art

RMEN CICERO; BS, Newark State College

JN CZERKOWICZ; BFA, MA, University of New Mexico; MFA, Rutgers University

DN DE LEEUW; BA, MA, New York University

SUELLEN GLASHAUSSER; BA, Manhattanville College; MA, University of California at Berkeley

NANCY GOLDRING; BA, Smith; MA, New York University

SUSAN GONICK-BARRIS; BA, Brooklyn College; MA, Pratt Institute

BERNARD KAHN; AB, Brooklyn College; MA, Columbia University

ABRAHAM S. KAMPF; Diploma, Art Teachers College, Tel Aviv; BS, New York University; MA, PhD, New School for Social Research

RICHARD KYLE; BA, Paterson State College; MA, Teachers College, Columbia University

PATRICIA LAY; BS, Pratt Institute; MFA, Rochester Institute of Technology

CHARLES H. MARTENS; BSc in Ed, Massachusetts College of Art; MA, EdD, New York University

WILLIAM C. MCCREATH; Diploma, Teachers College, Dundee, Scotland; BFA, University of Manitoba School of Art; MFA, Cranbrook Academy of Art

ELLEN MOHAMMED; BS, University of North Carolina; MA, Columbia University

HELENE S. ROSS; BS, BFA, MFA, Temple University

MARION SCHIEBEL; BA, Brooklyn College; MA, Teachers College, Columbia University

KLAUS SCHNITZER; BA, State University of New York, Albany; MFA, Ohio University

BETTY SCHLOSSMAN; BA, Wellesley College; MA, PhD, Columbia University

JONATHAN SILVER; BS, MA, Columbia University

MICHAEL SIPORIN; BA, MFA, Southern Illinois University

RALPH VERNACCHIA; BA, San Diego State College; MA, Teachers College, Columbia University

ALIDA WALSH; BS, Northwestern; MFA, San Diego State College

BRIAN WATKINS; BFA, Yale University; MFA, Rutgers University

CAROL WESTFALL; BFA, Rhode Island School of Design, MFA, Maryland 1st College of Art

PHILIP S. WINTER; BS, BArch, City University, City College; MA, Teachers College, Columbia University

MUSIC

LEONARD ARNER; BS, Columbia University

MARDEN BATE; BM, Manhattan School of Music; MA, Columbia University

EDMUND BATTERSBY; BM, MM, Juilliard School of Music

DAVID R. BOSSART; BM, Eastman School of Music; MA, Montclair State College

DONALD BUTTERFIELD; Diploma, Juilliard School of Music

MAUREEN A. CARR; BA, Marywood College; MFA, Rutgers University; PhD, University of Wisconsin-Madison

ARTHUR CHRISTMANN; Professor Emeritus of Music; Dip. and Post-Graduate Dip., Juilliard School of Music; BS, MA, Columbia University; SMD, Union Theological Seminary

BRENDA M. COOPER; BS in Music, Western Reserve University; Prof. Dip., Juilliard Graduate School of Music; MA, Columbia University

BRENDA FAIRADAY; BA, Immaculate Heart College; MM, University of Southern California

JOHN L. GIRT; BFA, MFA, Carnegie-Mellon University

HOWARD GREENBLATT; BA, Queens College; MA, Hofstra University

VICKI V. GROF; BM, Michigan State University

RUSSELL HAYTON; BMus, Chicago Conservatory; BMus in Ed, Roosevelt College; MSM, Union Theological Seminary

TING HO; BA, Bucknell University; MA, Kent State University; PhD, University of Rochester

LEON HYMAN; BA, Queens College; MS, Juilliard School of Music

LAWRENCE JACOBS; BM, Juilliard School of Music

JEROME L. LANDSMAN; BM, University of Rochester; MM, DMA, University of Southern California

WARD MOORE; Professor Emeritus; BA, Illinois Wesleyan University; MM, University of Michigan; MA, EdD, Columbia University

DOROTHY MORSE; Professor Emeritus; BA, MA, Carnegie Institute of Technology; PhD, New York University

RONALD NASPO; BA, Montclair State College

MARIO F. ONEGLIA; BM, Manhattan School of Music; MA, Professional Diploma, EdD, Columbia University

ROSALIE R. PRATT; BM, Manhattanville College; MM, Pius XII School of Fine Arts; EdD, Columbia University

MURRAY PRESENT; BM, Michigan State University; Diploma, Juilliard School

DOROTHY M. PRIESING; Professor Emeritus; BS, MA, Columbia University; Diploma, Juilliard School

DAVID RANDOLPH; BS, College of the City of New York; MA, Columbia University

HERBERT A. RANKIN; University of Houston; Houston Conservatory; Manhattan School of Music

OSCAR RAVINA; Diploma, Leningrad Conservatory of Music; Diploma, Bruckner Conservatory of Music; Diploma, Academy of Music in Salzburg; Diploma, Academy of Music in Vienna

RUTH RENDLEMAN; BM, North Carolina School of Arts; MM, Manhattan School of Music

JACK SACHER; BA, Middlebury College; MA, EdD, Columbia University

GERARD R. SCHWARZ; BS, Juilliard School of Music

WILLIAM SHADEL; BA, Montclair State College; MMus, Manhattan School of Music

MARTIN SMITH; BA, MS, Juilliard School of Music

DANIEL A. TRIMBOLI; BS, Ithaca College; MA, Columbia University

EMILY T. WATERS; BA, MA, Montclair State College

BARBARA L. WHEELER; BM, Hastings College; MM, Florida State University

KATHLEEN A. WILBER; BM, Manhattan School of Music; MM, Manhattan School of Music

BENJAMIN F. WILKES; AA, Lomar College; BS, MS, Juilliard School of Music; EdD, Columbia University

THOMAS WILT; BM, MM, University of Rochester

KONRAD M. WOLFF; LLD, Berlin University; MA, Columbia University

STEFAN H. YOUNG; BM, Rollins College; Juilliard School of Music

CHAIM ZEMACH; Diploma, Accademia Chigiana (Italy); Diploma, Cologne University (Germany)

SPEECH AND THEATER

JOSEPH F. BELLA; BFA, Carnegie-Mellon University; MFA, Catholic University of America

DORIS B. BIANCHI; BS, Syracuse University; MA Med, Columbia University

WAYNE BOND; AB, Alderson-Broaddus College MA, West Virginia University; PhD, Southern Illinois University

DANNIS B. EATON; BA, Ball State University; MA, Columbia University

JOHN A. FIGOLA; BS Ed, California State College MFA, Carnegie-Mellon University

L. HOWARD FOX; BA, Temple University; MA Northwestern University; PhD, New York University

EMERY HERMANS; Certificate, Nilolais Dance School

W. SCOTT MacCONNELL; BA, Amherst College MA, Columbia University

DENNIS K. McDONALD; BA, University of Northern Iowa; MA, New York University; PhD, Carnegie Mellon University

CLYDE W. McELROY; BA, MA, Baylor University; EdD, University of Virginia

KARL P. MOLL; AB, Westminster College; MA, Pennsylvania State University

PATRICIA A. NAVÉ; BS, Boston University; MA, Columbia University

GERALD LEE RATLIFF; BA, Georgetown; MA, University of Cincinnati; PhD, Bowling Green State University

LINDA J. ROBERTS; BA, University of Bridgeport; MA, Columbia University

JEROME ROCKWOOD; BA, Brooklyn College; MA, Western Reserve University; PhD, New York University

PHILLIP SABATELLI; BA, MA, PhD, Temple University

ANN G. SEIDLER; BA, Smith College; MA, PhD, New York University

DONALD E. SOBOLIK; BA, MA, University of Nebraska

CHRISTOPHER STASHEFF; BA, MA, University of Michigan; PhD, University of Nebraska

ROBERT W. SWINSTON, Jr.; BFA, Juilliard School of Music

HOWARD TRAVIS; BA, MA, PhD, University of Michigan

SCHOOL OF HUMANITIES

CLASSICS

DAVID H. KELLY; BA, Catholic University of America; MA, PhD, University of Pennsylvania

TIMOTHY T. RENNER; BA, Yale University; MA, University of Michigan

ENGLISH

VICTOR ALPER; AB, Boston University; MA, PhD, New York University
 SHAHLA ANAND; BA, DT, Lucknow University (Isabella Thoburn College); MA, Agra University; MA, Columbia University; PhD, New York University
 JEANNINE A. BARRETT; BA, Tennessee State University; MA, New York University
 MURIEL R. BECKER; BA, Hunter College; MA, Montclair State College; MLS, Rutgers University
 HOMAS BENEDIKTSSON; BA, Trinity University, PhD, University of Washington
 BUTLER E. BREWTON; BA, Benedict College; MA, Montclair State College
 ANIEL BRONSON; AB, Harvard College; MA, PhD, Columbia University
 WILLIAM C. DELL; BA, MA, New York University
 DAVID W. D. DICKSON; AB, Bowdoin College; MA, PhD, Harvard University
 MARGARET DUGGAN; BA, St. John's University; PhD, Columbia University
 ROVER C. FURR; BA, McGill University; MA, Princeton University
 ROBERT G. GORDON; BA, Colgate University; MA, Columbia University
 MICHAEL F. GRIECO; BA, Montclair State College; MA, Columbia University
 RAND B. HANSON; BS, University of Maine; MA, University of North Carolina at Chapel Hill; PhD, University of Minnesota
 LAINE HARRINGTON; BA, MA, Montclair State College
 LAURE HEALEY; BS, Boston University; MA, PhD, Columbia University
 MARY D. JACOBS; BA, DePauw University; MA, D, Harvard University
 TA JACOBS; BA, Queens College; MA, PhD, University of Pennsylvania
 MARY E. JOHNSTON; BA, Howard University; MA, Montclair State College
 DEE C. KHANNA; BA, Denison University; MA, PhD, Columbia University
 ROMI C. LIEBLER; BA, City College of New York; PhD, State University of New York at Stony Brook
 THOMAS L. LOVASCO; BA, Williams College; MA, University of Connecticut
 KRIS G. MCGEE; BA, Montclair State College; EdD, New York University
 VID MERANZE; BA, Harvard University; MFA, Yale University
 NEZ MICKELSON; BS, New York University; MA, Rutgers University
 CE SANDS MILLER; BA, Hunter College; MA, Pennsylvania State University
 MIES F. NASH; BA, LaSalle College; MA, PhD, University of Virginia
 RAYMOND PAUL; BA, Princeton University; MA, Columbia University
 LES P. PETTEGROVE; BA, Bowdoin College; BA, Fordham University; MA, Harvard University
 MARGE R. PETTY, Jr.; BA, Princeton University; PhD, New York University

THEODORE PRICE; BA, Kenyon College; MA, Columbia University; PhD, Rutgers University
 MURRAY PROSKY; BA, New York University; MA, PhD, University of Wisconsin
 SANFORD RADNER; BA, Duke University; MA, EdD, Columbia University
 MORTON D. RICH; BA, Cornell University; MEd, Rutgers University; PhD, New York University
 JOHN P. ROBERTS; BA, Union College; MA, Columbia University
 DOROTHY R. RUDY; BA, Queens College; MA, Columbia University
 LAWRENCE SCHWARTZ; BA, Newark College of Engineering; MA, Stanford University
 DOUGLAS M. SCHWEGLER; BA, Lake Forest College; MA, George Washington University; PhD, University of Minnesota
 KEITH D. SLOCUM; BA, Knox College; MA, PhD, University of Pennsylvania
 SHARON SPENCER; BA, MA, PhD, New York University
 CAROLE B. STONE; BA, New York University; MA, Rutgers University; PhD, Fordham University
 DAVID M. STUEHLER; BA, Rutgers University; MA, PhD, New York University

FRENCH

MAURICE CAGNON; BA, Providence College; MA, Middlebury College; PhD, University of Pennsylvania
 ROBERT M. GLICK; BA, PhD, University of Chicago; MA, Middlebury College
 HELENE KLIBBE; Licence-es-Lettres, Universite de Paris (Sorbonne); PhD, Syracuse University
 HENRY RICHARDS; BA, MA, Columbia University
 LOUIS J. M. ROEDERER; Licence en Droit, Universite de Lyon; PhD, New York University
 MADELEINE A. SERGENT; Diploma de la Escuela Central de Idiomas, University of Madrid; MA, University of Colorado
 ROBERT SOFFER; BA, New York University; MA, Columbia University; MA, Teachers College, Columbia University
 ENID M. STANDRING; BA, MA, Manchester University (England); Licence-es-Lettres, Universite de Besancon (France); PhD, New York University
 LILLIAN SZKLARCZYK; BA, Hunter College; MA, Middlebury College; PhD, University of Pennsylvania
 KAY S. WILKINS; BA, PhD, University of Southampton (England)

GERMAN

WALTER L. HEILBRONNER; BA, MA, PhD, University of Michigan
 EDITH G. LENEL; Professor Emeritus of German; MS, Columbia University; MA, DrPhil, University of Loenigsberg
 CARL D. LINDBLOM; BM, MA, University of Rochester; PhD, Rutgers University
 JOHN V. MOORE; AB, Harvard College; MA, PhD, Princeton University
 ERNESTINE SCHLANT; BA, MA, PhD, Emory University
 ROBERT SOFFER; BA, New York University; MA, Columbia University; MA, Teachers College, Columbia University

310 / Faculty

LINGUISTICS

ALICE F. FREED; BA, MA, PhD, University of Pennsylvania

ROBERT L. MILLER; BA, Wayne State University; MA, PhD, University of Michigan

NGARI NGUNJIRI; BS, Springfield College, MA, St. John's University

MILTON S. SEEGMILLER; BA, Brooklyn College; MA, PhD, New York University

JANET SUSI; BA, Douglass College; MA, Middlebury College; MA, Columbia University

PHILOSOPHY AND RELIGION

KENNETH AMAN; BA, Maryknoll College; MA, Fordham University; M Th, Maryknoll Seminary; PhD, Yale University

DAVID W. BENFIELD; BA, St. John's College, Md.; MA, PhD, Brown University

GEORGE E. BRANTL; BA, MA, PhL, Woodstock College; MA, Fordham University; PhD, Columbia University

THOMAS W. BRIDGES; BA, New York University; MA, PhD, Columbia University

EVA M. FLEISCHNER; BA, Radcliffe College; MA, University of Notre Dame; PhD, Marquette University

STEPHEN M. JOHNSON; AB, Spring Hill College; MA, Marquette University; MPhil, PhD, Yale University

MICHAEL S. KOGAN; BA, ABD, Syracuse University

MATTHEW LIPMAN; BS, PhD, Columbia University

ADELE B. MCCOLLUM; BS, MA, PhD, Syracuse University

THOMAS H. RICHARDSON; Distinguished Service Professor of Philosophy, BS, State University of New York; MA, EdD, Columbia University; London School of Economics; Cambridge University; Gutenberg University; LLD, Bloomfield College

WILLIAM L. STANTON; BA, Stanford University; MA, PhD, Princeton University

ROBERT F. STREETMAN; AA, Holmes Junior College; BA, Millsaps College; BD, Duke Divinity School; STM, Pacific School of Religion; PhD, Drew University

SPANISH AND ITALIAN

RONALD M. BARASCH; BA, MA, University of California

CLARA L. BARBEITO; Dr en Filosofia y Letras, Havana University

ITALO BATTISTA; BA, City College, CUNY; MA, Rutgers University

VINCENZO Z. BOLLETINO; BA, City College, CUNY; MA, PhD, Rutgers University

SOPHIA DEMETRIOU; BA, MA, Queens College, CUNY

JOANNE ENGELBERT; BA, Adelphi University; MA, Middlebury College; PhD, New York University

NORMAN H. FULTON; BA, Central Missouri State College; EdM, University of Rochester; Licentiate, PhD, University of Madrid

MARILYN FRANKENTHALER; BA, City College, CUNY; MA, Hunter College; PhD, Rutgers University

JOHNG HWANG; BA, MA, Stanford University; MA, PhD, University of Oregon

LINDA G. LEVINE; BA, New York University; MA, PhD, Harvard University

ROBERT J. McCORMICK; BA, St. John's University; MA, Queens College; PhD, Graduate Center, CUNY

ROSE S. MINC; BA, Douglass College; MA, PhD, Rutgers University

GIOVANNA MIRESI; BA, Lehman College, CUNY; MA, Queens College, CUNY

PAOLO POSSIEDI; Dottore lettere, University of Padua (Italy)

SARA F. PRIETO; BA, BS, Instituto de la Habana; Doctor en Filosofia Letras, Universidad de Habana

ANA M. RAMBALDO; BA, Southern Methodist University; MA, PhD, New York University

HENRY RICHARDS; BA, MA, Columbia University

JORGE SANTOS; BA, York College, CUNY; MA, Graduate Center, CUNY

JANET SUSI; BA, Douglass College; MA, Middlebury College; MA, Columbia University

JOHN A. ZAHNER; BA, Toledo University; MA, PhD, University of Arizona

SCHOOL OF MATHEMATICS AND SCIENCE

BIOLOGY

LARRY D. CRIBBEN; BS, Rio Grande College; MA, University of Oklahoma; PhD, Ohio University

GERT L. DANIELS; BA, MA, University of Texas; EdD, Columbia University

ANN MARIE DI LORENZO; BA, Trinity College; MA, PhD, New York University

OPHELIA D. GONA; BS, Johnson C. Smith University; MS, Yeshiva University; MA, City College of New York; PhD, City University of New York

ROSLYN T. KANE; BA, Hunter College; MS, New York University

LEAH K. KODITSCHEK; BA, Hunter College; MA, Oberlin College; PhD, Rutgers University

STEPHEN J. KOEPP; BA, Messiah College; MA, PhD, North Texas State University

S. MARIE KUHNEN; BA, Montclair State College; MA, Columbia University; PhD, New York University

JON MICHAEL McCORMICK; BS, Portland State University; MS, PhD, Oregon State University

ANNA C. PAI; BA, Sweet Briar College; MA, Mawr College; PhD, Albert Einstein College of Medicine

NORMAN A. RUBIN; BS, City College of New York

MARIE S. SAWITS; BA, MA, Hunter College; PhD, Columbia University

JUDITH A. SHILLCOCK; BA, MA, PhD, Rutgers University

PAUL P. SHUBECK; BS, Seton Hall University; MA, Montclair State College; PhD, Rutgers University

MICHAEL H. SURGAN; BS, Brooklyn College; PhD, University of Massachusetts

CHEMISTRY

HANI Y. AWADALLAH; NSc, Cairo University; PhD, Bowling Green State University

OSEPH F. BECKER; BA, Harvard University; MEd, University of Delaware; MA, EdD, Columbia University; JD, Seton Hall University

UCILE S. FINK; BA, Mount Holyoke College; MS, Durham University

OLAND R. FLYNN; BA, Montclair State College; A, Brown University

NDREW R. GALLOPO; BA, Rutgers University; Ed, Brown University

ADIMIR L. GARIK; BS, MS, Polytechnic Institute Brooklyn; PhD, University of Pittsburgh; PhD, University of Connecticut

WIN H. GAWLEY, Jr.; BA, MA, Montclair State College; EdD, Columbia University

JHN L. ISIDOR; BS, Stonehill College; PhD, University of North Carolina

ARC L. KASNER; BS, California State University at Long Beach; PhD, Purdue University

ARK L. LYNDRUP; BS, Trinity College; PhD, Northwestern University

ANCY S. PAISLEY; BA, University of Minnesota; PhD, University of Illinois

BERT ZABADY; BA, MA, Montclair State College; University of New Hampshire

MATHEMATICS

RDIP S. AHLUWALIA; MA, Panjab University; MA, Indian Statistical Institute; PhD, Indiana University

LIP H. ANDERSON; BS, MA, University of Notre Dame; MS, Purdue University

ANLEY BENTON; BS, U.S. Naval Academy; MS, Tulane University

WARD A. BOYNO; BA, St. Peter's College; MS, Rutgers University

ERLE BREDLAU; BA, MS, PhD, Rutgers University

OMAS F. CARROLL; BS, MAT, Tulane University; Rutgers University

CHUNG A. CHAI; BA, Wittenberg University; New York University; PhD, Polytechnic Institute Brooklyn

DREW DEMETROPOULOS; BA, Rutgers University; MA, MS, New York University; PhD, Stevens Institute of Technology

OMAS F. DEVLIN; BA, LaSalle College; MA, PhD, Catholic University of America

SHERT GARFUNKEL; BA, Rutgers University; MA, Montclair State College

IL GOTTSCHALL; BA, City University of New York; JD, New York University; MS, Yeshiva University

ORGE H. GUGEL; BA, Hartwick College; MS, University of New York at Oneonta

NETH KALMANSON; BS, Brooklyn College; City University of New York

RICIA KENSCHAFT; AB, Swarthmore College; PhD, University of Pennsylvania

LIAM G. KOELLNER; BA, MA, Montclair State College

COANTONIO LACATENA; BS, Fairleigh Dickinson University; MA, Montclair State College

REY J. LEEF; BA, Montclair State College; MS, Stevens Institute of Technology; EdD, Rutgers University

EVAN M. MALETSKY; BA, MA, Montclair State College; PhD, New York University

GIDEON NETTLER; BS, Rensselaer Polytechnic Institute; MS, Polytechnic Institute of Boston

BOBBIE ANN OTHMER; BA, Macalester College; MS, University of Minnesota; MS, Rutgers University

WILLIAM R. PARZYNSKI; BS, MS, PhD, Stevens Institute of Technology

HELEN MARCUS ROBERTS; BS, City College of New York, PhD, Johns Hopkins University

LAWRENCE H. RUSSELL; BSEE, Columbia University; MS, PhD, Stevens Institute of Technology

MAX A. SOBEL; BA, Montclair State College; MA, PhD, Columbia University

JOHN G. STEVENS; BS, Indiana University; PhD, New York University

RUTH C. STEWART; BA, MA, EdD, Rutgers University; MA, Columbia University

JAMES H. STODDARD; BS, PhD, University of Michigan

WALTER R. WESTPHAL; BS, State University of New York at Buffalo; MA, Columbia University; MA, University of Illinois

THOMAS E. WILLIAMSON, Jr.; BS, University of Maryland; PhD, Rutgers University

KENNETH C. WOLFF; BA, Montclair State College; MA, Pennsylvania State University; PhD, New York University

PHILIP W. ZIPSE; BS, DePaul University; MS, University of Akron; PhD, Rutgers University

PHYSICS-GEOSCIENCE

MARY A. DERENGOWSKI-STEIN; BA, College of Our Lady of the Elms; PhD, Columbia University

VICTORIA P. FILAS; BA, MA, Montclair State College

IMAD E. HAMDAN; BS, MAT, Fairleigh Dickinson University; PhD, Walden University

CHARLES L. HAMILTON; BA, Lehigh University; MA, Dartmouth College; PhD, Virginia Polytechnic Institute

RICHARD H. HODSON; BS, Trenton State College; MA, Montclair State College

FRANK S. KELLAND; BEd, Keene State College; MA, Clark University

LUDWIK KOWALSKI; BS, MS, Polytechnic Institute of Warsaw; PhD, University of Paris

STEPHEN W. KOWALSKI; BS, Fairleigh Dickinson University; MA, PhD, New York University

WILLIAM H. MAK; BS, PhD, Rensselaer Polytechnic Institute

BEN MINOR; BS, MEE, City College of New York; PE, State of New Jersey; IE, Columbia University

ROBERT C. RAMSDELL; BA, Lehigh University; MS, Rutgers University; MA, Princeton University

JOHN V. THIRUVATHUKAL; BS, St. Louis University; MS, Michigan State University; PhD, Oregon State University

MARY L. WEST; BA, MS, Cornell University; PhD, Columbia University

SCHOOL OF PROFESSIONAL ARTS AND SCIENCES

ADMINISTRATIVE SCIENCES

- RAYMOND AMIEL; BBA, MBA, Baruch College, CUNY; CPA, State of New York
- CHUAN YU E. CHEN; BS, National Taiwan University; MA, Columbia University; PhD, New York University
- FREDERICK D. CROWLEY; BBA, MBA, Iona College
- RALPH A. DiPIETRO; BBA, MBA, Baruch College, CUNY; PhD, New York University
- IRENE K. DOUMA; BS, Fairleigh Dickinson; MBA, Rutgers State University; CPA, State of New Jersey
- HERSHEY H. FRIEDMAN; BA, MA, Brooklyn College, CUNY
- LARRY S. GOLDSTEIN; BBA, City College of New York; MA, Columbia University
- JOSEPH A. GRECO; BBA, St. John's University; MBA, PhD, New York University; CPA, State of New York
- FREDERICK J. KELLY; BA, Manhattan; PhD, Columbia University, NYC
- MICHAEL P. LONDON; BAE, MS, New York University
- CLIFFORD MASHEB; BA, MBA, New York University; CPA, State of New York
- BYUNG K. MIN; BA, Seoul National University; MBA, SUNY-Albany; PhD, Pennsylvania State University
- PHYLLIS L. MIRCHIN; BS, William Paterson College; MBA, New York University
- JEAN NAMIAS; BS, CCNY; MA, PhD, New York University
- JOSEPH NEIMAN; BA, Queens College, CUNY; MBA, Baruch College, CUNY; CPA, State of New York
- ALAN J. OPPENHEIM; BS, MS, Polytechnical Institute of Brooklyn; PhD, New York University
- CONSTANTINE PAPOULIAS; BS, Athens College of Business & Economics; MBA, New York University
- LEE PRIMIANO; BA, Montclair State College; MBA, Rutgers University; CPA, State of New Jersey
- ARNOLD SCHANCUPP; BBA, CCNY; JD, Brooklyn Law School; LLM, New York University
- DOROTHY L. SHAPIRO; BS, Wagner College; MBA, Pace University; JD, Brooklyn Law School; CPA, State of New York
- ALLEN J. SIMONSON; AB, JD, Rutgers University; MBA, Seton Hall University
- LESLIE SMITH; MA, Montclair State College
- ABRAHAM STEIN; BA, MS, CCNY; MBA, New York University
- JOHN H. TURNER; BS, Fairleigh Dickinson University; MBA, PhD, Baruch College, CUNY
- ALEXANDER VOLOTTA; BS, Syracuse University; MBA, University of Toledo; PhD, Pennsylvania State University
- ELMER E. WATERS; BS, Columbia University; MBA, Rutgers University; PhD, Baruch College, CUNY
- ROBERT H. WERNER; BA, University of Pennsylvania; MBA, Seton Hall University; CPA, State of New York, State of New Jersey

BUSINESS AND DISTRIBUTIVE EDUCATION

- STEPHEN CYRUS; BA, MA, Montclair State College
- JOSEPH C. HECHT; BS, Long Island University; EdD, New York University
- LEONARD B. KRUK; BS, Bloomsburg State College; M.Ed, EdD, Temple University
- ROSEMARIE McCUALEY; BA, Trenton State College, MA, Seton Hall University
- LOUIS C. NANASSY; BS, Indiana University, Pennsylvania; MA, Ohio State University; EdD, Columbia University
- ALBERT D. ROSSETTI; BS, Trenton State College, MA, Montclair State College; EdD, Rutgers University
- ALTHEA STEVENS; BS, California State University, L.A.; EdM, Rutgers University
- PALMINA A. UZZOLINO; BS, New York University, MA, Catholic University
- HEALTH PROFESSIONS**
- RUTH C. BLANCHE; RN, Monmouth Medical Center, BA, MA, Seton Hall; EdD, Columbia University
- JOSEPH COAXUM; BS, Savannah State College, MA, SUNY-Stony Brook
- ALDEN C. CODER; BA, Juniata College; MA, University of Pittsburgh; EdD, Boston University
- MICHAEL S. DAVIDSON; BA, Brown University; MED, EdD, Columbia University
- HARRY H. HOITSMA; BS, MA, EdD, New York University
- CATHERINE J. PASKERT; BS, Panzer College, Columbia University; PhD, University of Utah
- JOHN G. REDD; BS, Ohio State University; MA, University of Michigan
- A.W. RENTSCH; BA, Adrian College; MA, Montclair State College; PhD, University of Michigan
- BLANCHE R. RIED; BA, Brooklyn College, MA, PhD, New York University
- REZA B. SHAHROKH; BS, MS, PhD, Southern Illinois University
- HELEN WIIG; BA, Wagner College; MA, New York University
- HOME ECONOMICS**
- HUBERTA D. ALCARO; BA, Western Washington State College; MS, Purdue University
- JOAN D. BERNSTEIN; BA, Queens College, CUNY; MA, Columbia University
- ROBERTA C. BRAUSE; BS, MS, Hunter College, CUNY
- RUTH CAROL; BS, Brooklyn College, CUNY; EdD, Columbia University
- M. ELAINE FLINT; BA, Western Kentucky University; MS, Southern Illinois University; PhD, Pennsylvania State University
- LOIS J. GUTHRIE; BS, West Virginia University; Purdue University
- KATHARINE B. HALL; BS, MS, University of Tennessee; PhD, Pennsylvania State University
- JUANITA HUDSON; BS, University of Illinois; Columbia University
- ELIZABETH P. KELLEY; BS, Maryville College, New York University; Professional Diploma, Columbia University

VIVIAN D. MORRIS; BS, MS, Alabama A&M University; PhD, George Peabody College

MARGARET R. MUKHERJEE; BS, Cornell University; MA, Michigan State University

CATHERINE N. NORRIS; BS, MS, University of Tennessee

MICHELE L. REILLY; BA, MA, Montclair State College

MIRIAM G. SILVER; BS, Douglass College; MS, Bank Street College of Education

JOAN S. TABOR; BA, Queens College, CUNY; MS, Ohio State University

VIJAY TANEJA; BS, B Ed, Delhi University, (India); MA, PhD, Iowa State University

KAREN TODD; BS, MS, North Texas State University; PhD, State University of Iowa

LEONA WEITZ; BS, Indiana University of Pennsylvania, M Ed, Pennsylvania State College

INDUSTRIAL EDUCATION AND TECHNOLOGY

ROBERT BROWNING; BS, State University of New York at Oswego; MA, EdD, Columbia University

ROBERT F. DORNER, BS, Trenton State College; MA, Montclair State College

MICHAEL DYRENFURTH; B Ed, M Ed, University of Alberta; PhD, Bowling Green State University

ARTHUR W. EARL; BS, Newark State College; MA, Montclair State College; EdD, Columbia University

HARRISON GOODALL; BS, Trenton State College; MA, Ball State University

MARTIN T. GREENWALD; BS, BA, EdD, New York University; MS, CCNY

DEBORAH HEALY; BA, College of New Rochelle; MA, Montclair State College

WAYNE NELSEN; BS, State University College at Oswego; MA, EdD, University of Northern Colorado

GEORGE A. OLSEN; BS, Newark State College; MA, Montclair State College; EdD, New York University

GLEN E. REHORN; BS, MS, EdD, Oklahoma State University

RED D. SCHUMM; BS, Newark State College; MA, Montclair State College; EdD, New York University

AYMOND C. VANBENSCHOTEN; BS, EdM, EdD, Rutgers University

INCENT J. WALENCIK; BS, MA, Montclair State College; EdD, Rutgers University

PHYSICAL EDUCATION

EE K. ARNOLD; BS, Valparaiso University; M Ed, Miami University Ohio; EdD, Columbia University

FRGINIA A. CROSSMAN; BS, Boston University; MA, Columbia University

EROME G. DeROSA; BS, Panzer College; MA, Montclair State College

OMENICA DESIDERIOSCIOLI; BS, MS, Brooklyn College, CUNY

ENRY M. FERRIS; BA, Syracuse University; MA, New York University

FRGORE A. HORN; BS, Albright College; MA, PhD, New York University

PHYSICAL EDUCATION

FRONARD K. LUCENKO; BA, Temple University; MA, New York University; PhD, University of Utah

ANN R. MCCONNELL; BS, Cortland State Teachers College; MS, SUNY-Cortland; EdD, Syracuse University

GAIL REIKEN; BS, Brooklyn College, CUNY; MS, Pennsylvania State University

JOAN SCHLEEDE; BS, MA, EdD, New York University

TIMOTHY F. SULLIVAN; BS, Cortland State Teachers College; MS, Ithaca College

MARILYN TAIGIA; BS, Panzer College; MA, Columbia University

RICHARD W. TEWS; BS, LaCrosse State Teachers College; MA, Iowa State University; PhD, New York University

JOSEPH TOTH; BS, University of Akron; M Ed, Kent State University; EdD, Colorado State College

HAZEL M. WACKER; BPE, Panzer College; MA, Montclair State College; EdD, New York University

RECREATION PROFESSIONS

ROBERT E. MEYERS; AB, Stanford University; MS, San Jose State University; D. Criminology, University of California

NEW JERSEY SCHOOL OF CONSERVATION

PATRICIA A. FORD; BS, Tusculum College; MA, Glassboro State College

REGINE M. KELLY; BA, MA, Trenton State College

JOHN J. KIRK; BS, Boston University, MA, PhD, University of Michigan

JAMES K. MERRITT; BA, Trenton State College; MA, Glassboro State College

JERRY T. SCHIERLOH; BS, West Michigan University; MS, Purdue University

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

ANTHROPOLOGY

JAMES BOYLAN; BA, MA, PhD, Wayne State University

KENNETH H. BROOK; BA, MA, Hunter College; PhD, City University of New York

DOROTHY K. CINQUEMANI; BA, University of New Mexico; PhD, Columbia University

MARCHA P. FLINT; BA, Hunter College; MA, New York University; PhD, City University of New York

RICHARD W. FRANKE; BA, PhD, Harvard University

HARRIET M. KLEIN; BA, University of Chicago; PhD, Columbia University

BERTHA B. QUINTANA; BA, Upsala College; MA, EdD, New York University

MAURIE SACKS; BA, Queens College, CUNY; PhD, Columbia University

COMMUNICATION SCIENCES & DISORDERS

JOSEPH S. ATTANASIO; BA, MA, Montclair State College

ELAINE BARDET; BA, Douglass College; MA, Seton Hall University; PhD, Columbia University

FREDERICKA BELL-BERTI; BS, City College of the City University of New York; PhD, City University of New York

GERARD CARACCIOLO; BA, MA, Montclair State College; EdD, Teachers College, Columbia University

314 / Faculty

MARGARET LAHEY; BS, State University of New York; MA, Ohio State University; EdD, Teachers College, Columbia University

GILBERT LEIGHT; BSEd, City College of New York; MA, PhD, Columbia University

MICHAEL LINDENMAN; BA, Trenton State College; MA, Teachers College, Columbia University

NAOMI SCHIFF; BA, Barnard College; MA, PhD, Teachers College, Columbia University

HAROLD SCHOLL; BBA, MBA, City University of New York; EdD, Teachers College, Columbia University

TERRY D. SCHON; BS, Bowling Green State University; MA, Hunter College, PhD, Syracuse University

EDWARD SHULMAN; BA, Western Michigan University; MS, University of Minnesota; PhD, University of Iowa

GERALD WOOLF; BS, City College of New York; MA, University of Pittsburgh; PhD, New York University

ECONOMICS

SURESH DESAI; BA, MA, LLB, PhD, Gujarat University (India); MA, PhD, University of California at Los Angeles

HAROLD FLINT; BA, Western Kentucky; MA, PhD, Southern Illinois University

SIDNEY J. KRONISH; BS, MA, New York University; PhD, Yeshiva University

DENNIS O'NEILL; BA, MA, PhD, University of Cincinnati

MARGARET REILLY-PETRONE; BA, Immaculate Heart College, MA, PhD, Fordham University

FRANCIS SCHER; BA, Smith College; MA, Columbia University

SERPIL SISIK-LEVEEN; BA, University of Ankara (Turkey); MA, Southern Illinois University; PhD, New York University

HUMPHREY O. HUSBANDS; BBA, Bernard M. Baruch College, MA, Hunter College

MICHAEL J. MARAN; BA, Rutgers University, MA, PhD, University of Pennsylvania

GEOGRAPHY & URBAN STUDIES

HOWARD R. BALLWANZ; BS, MS in Ed., Northern Illinois University

BERTRAND P. BOUCHER; BA, MA, Colorado University

JOSEPH CONTESSA; BA, City College of New York; MS, PhD, Southern Illinois University

SOPHIA G. HINSHALWOOD; BA, Central College, MA, University of Georgia

DAVID K. ROBERTSON; BA, University of Michigan; MS, PhD, Rutgers University

HARBANS SINGH; BA, Government College (Rupar, India); MA, Punjab University (India); MA, PhD, Rutgers University

ROLF STERNBERG; BA, Ursinus College; MA, Clark University; PhD, Syracuse University

ROBERT W. TAYLOR; BA, Washington University; MA, PhD., St. Louis University

HISTORY

RICHARD J. BARKER; BA, University of Rochester; MA, PhD, Duke University

ROBERT R. BECKWITH; BA, Montclair State College; MA, PhD, Columbia University

JOHN T. BELL; BA, MA, Montclair State College

GEORGE C. BRETHERTON; BS, MA, Columbia University

JAMES P. KEENEN, III; BA, MA, Montclair State College; EdD, Columbia University

WALTER E. KOPS; BA, MA, Montclair State College

PETER F. MACALUSO; BA, St. Bonaventure University; MA, Seton Hall University; PhD, New York University

JOSEPH T. MOORE; BS, EdD, Rutgers University; MA, Montclair State College

LOIS A. MORE; BA, MA, Montclair State College; EdD, Columbia University

MWANGI WA-GITHUMO; BA, Wayne State University; MSc, City University of New York; PhD, New York University

J. KENNETH OLENIK; BBS, John Carroll University; MA, PhD, Cornell University; MA, Seton Hall University

PETER PASTOR; BS, City College of New York; MA, PhD, New York University

DANIEL J. PROSSER; BA, University of the Redlands; PhD, Northwestern University

HELEN ROYER; BA, MA, Bucknell University; PhD, Pennsylvania State College

JOEL SCHWARTZ; BA, MA, PhD, University of Chicago

AMY SREBNICK; BA, MA, University of Wisconsin

SHARON L. WYATT; BA, MA, University of Mexico; PhD, University of Florida

LOUIS B. ZIMMER; BS, State University of New York at Cortland; MA, PhD, New York University

POLITICAL SCIENCE

HARRY BALFE, II; BA, Trinity College; MA, American University; JD, Catholic University

WILLIAM M. BATKAY; BA, Fordham, MA, PhD, Columbia University

WILLIAM S. BERLIN; BA, Brooklyn College; MA, George Washington University; PhD, Rutgers University

SYLVAN FELDSTEIN; BA, Columbia University; MS, City University of New York, PhD, Columbia University

GILBERT O. HOURTOULE; BA, Montclair State College, MA, Stanford University; PhD, Pennsylvania State University

EDWARD W. JOHNSON; BA, Rutgers University; MA, New School for Social Research; PhD, New York University

LUCINDA LONG; BA, Williams College; MA, PhD, Johns Hopkins University

GEORGE T. MENAKE; BA, St. Peter's College; MA, St. John's University; PhD, New York University

CHARLES M.B. UTETE; BS, University of London; MA, Tufts University; MA, PhD, Carleton University

PSYCHOLOGY

EDWARD ARONOW; BA, Queens College, CUNY; MA and PhD, Fordham University

IRWIN J. BADIN; BA, Long Island University; PhD, New York University

MARTIN BROWN; BS, City University of New York; MA, Columbia University; EdD, Rutgers University

LEONARD J. BUCHNER; BA, Montclair State College; PhD, Columbia University

JOAN CHEU; BA, National Taiwan University; MA, Teachers College, Columbia University

ROBERT A. CICERONE; BA, Upsala College; MA, Temple University; PhD, University of Maine

GARY I. DANIELSON; BA, Elizabethtown College; MS, Florida State University

RICHARD D. DRAPER; BA, Kalamazoo College; MS, PhD, Purdue University

WALTER R. DURYEA; BA, Rutgers University; MA, University of Connecticut; PhD, Florida State University

MARK J. FRIEDMAN; BA, Colgate University; MS, PhD, Purdue University

STEPHEN M. FRIEDMAN; BA, College of William and Mary; MA, PhD, University of California

MARGARITA GARCIA; BS, MA, PhD, Columbia University

VICTOR C. GARIBALDI; BS, City University of New York; MA, New York University; MS, Yeshiva University

ROBERT GOODKIN; BA, Allegheny College; MS, PhD, Florida State University

HERBERT J. HAUER; BA, PhD, New York University; MA, Columbia University

THERESE M. HERMAN; BA, New York University; PhD, New School for Social Research

CHRISTINE D. HOOVER; BA, MS, PhD, Fordham University

EVA KANTOR; BA, Barnard College; PhD, Boston University

MARK A. KOPPEL; BA, Columbia University; MA, PhD, Northwestern University

DORIS R. KRAEMER; BA, Rutgers University; MA, Columbia University; PhD, Yeshiva University; Diplomate in Clinical Psychology

JANE KRUMACHER; BS, Rutgers University; MA, EdD, New York University

MOIRA K. LEMAY; BS, Queens College; MS, PhD, Pennsylvania State University

PAUL J. LOCHER; BS Ed, Kutztown State College; MS, PhD, Temple University

JAMES O'CONNELL; AB, Douglass College (Rutgers University); MS, PhD, Rutgers University

HARON OLSON; BA, DePauw University; MA, PhD, New School for Social Research

HOMAS BIDDLE PERERA; AB, MA, PhD, Columbia University

GEORGE S. ROTTER; BA, Brooklyn College; PhD, New York University

AOMI G. ROTTER; BA, Skidmore College, PhD, New York University

HARITY E. RUNDEN; BA, MA, Ball State University; S, PH, University of North Carolina; PhD, Indiana University

BETTE F. SALNY; BA, New York University; MA, Montclair State College; EdD, Rutgers University

EROLD S. SCHWARTZ; BA, University of Pennsylvania; MA, PhD, Yeshiva University

JEROME M. SEIDMAN; BS, MS, Rutgers University; PhD, New York University

JOHN SEYMOUR; BS, William Paterson; MA, PhD, New York University

ROLAND J. SIITER; BA, Northwestern University; MA, Xavier University; PhD, Purdue University

IRA R. SUGARMAN; BA, New York University; MS, PhD, Columbia University

DAVID J. TOWNSEND; BA, University of Michigan; MA, PhD, Wayne State University

RHODA K. UNGER; BS, Brooklyn College; MA, PhD, Harvard University

DANIEL E. WILLIAMS; BA, Seton Hall University; MS, PhD, St. John's University

BERTON J. WISER; BA, University of Rochester; MS, Purdue University

PETER F. WORMS; BBA, MS, City College of New York; EdD, Rutgers University

EDWARD J. HAUPT; BAE, University of Minnesota; PhD, New York University

SOCIOLOGY

DAVID N. ALLOWAY; AB, Muhlenberg College; MA, Columbia University; PhD, New York University

BARBARA CHASIN; BA, The College of the City of New York; PhD, University of Iowa

DANIEL C. FOSS; BA, PhD, New York University

PETER FREUND; BA, University of Maryland; MA, Queens College; PhD, New School for Social Research

LAURA K. GORDON; BA, University of Michigan; MA, PhD, State University of New York at Stony Brook

BYONG-SUH KIM; BA, Florida Presbyterian College; MTh, Princeton Theological Seminary; PhD, Emory University

GILBERT KLAJMAN; BA, Brooklyn College; MA, Brandeis University

EDITH KURZWEIL; BA, Queens College; MA, PhD, New School for Social Research

JAY LIVINGSTON; BA, Brandeis University; PhD, Harvard University

GEORGE T. MARTIN; BA, Vanderbilt University; MA, PhD, University of Chicago

MEREDITH B. MC GUIRE; BA, Eckerd College; MA, PhD, New School for Social Research

DAVID G. NELSON; BA, Antioch College, MA, PhD, University of Chicago

SAMUEL PRATT; BS, University of Connecticut; MA, Michigan State University; PhD, University of Michigan

PATRICK R. VINCENT; BS, London School of Economics; MA, McMaster University

PROFESSORS EMERITI

HAROLD C. BOHN, Professor Emeritus of English; BA, Hamilton College; MA, Harvard University; EdD, Columbia University

LILLIAN A. CALCIA, Professor Emerita of Fine Arts; BS, MA, Columbia University; EdD, New York University

316 / Faculty and Library Staff

ARTHUR H. CHRISTMANN, Professor Emeritus of Music; Dip. and Post Graduate Dip., Juilliard School of Music; BA, MA, Columbia University; SMD, School of Sacred Music, Union Theological Seminary

PAUL C. CLIFFORD, Professor Emeritus of Mathematics; BA, Columbia College, Columbia University; MA, Columbia University

LAWRENCE H. CONRAD, Professor Emeritus of English; BA, MA, University of Michigan

GERT DANIELS, Professor Emeritus of Biology; BA, MA, University of Texas; EdD, Columbia University

DAVID R. DAVIS, Professor Emeritus of Mathematics; BA, MA, Indiana University; PhD, University of Chicago

EARL C. DAVIS, Professor Emeritus of Psychology; BS, State Teachers College, West Chester, Pennsylvania; MS, University of Pennsylvania; PhD, New York University

STEVEN C. EARLEY, Professor Emeritus of English; BA, Lebanon Valley College; MA, Columbia University; PhD, University of Geneva

EMMA FANTONE, Professor Emerita of Audio-Visual Education; BA, MA, Montclair State College

ERNEST B. FINCHER, Professor Emeritus of Political Science; BA, Texas Technological College; MA, Columbia University; PhD, New York University

LOIS GRAY FLOYD, Professor Emerita of Psychology; BA, Texas Christian University; MA, University of Texas; PhD, New York University

L. HOWARD FOX, Professor Emeritus of Speech and Theater; BA, Temple University; MA, Northwestern University; PhD, New York University

M. HERBERT FREEMAN, Professor Emeritus of Business Studies; BS, MA, PhD, New York University

PAUL E. FROELICH, Professor Emeritus of Business Studies; BA, BD, Anderson College; MA, Columbia University; EdD, New York University

EDWIN S. FULCOMER, Professor Emeritus of English; BA, Albright College; MA, EdD, Columbia University

HOWARD L. HAAS, Professor Emeritus of Business Studies; BS, Trenton State College; MEd, EdD, Rutgers—The State University

CLYDE M. HUBER, Dean Emeritus; BA, Pennsylvania State University; MA, PhD, University of Illinois

EMIL KAHN, Professor Emeritus of Music; AM, Goethe Gymnasium, Frankfurt, Germany, Maturum; Dr. Hochs Konservatorium, Frankfurt, Germany; University of Frankfurt, Germany

MATHILDA KNECHT, Professor Emerita of Linguistics; BA, Montclair State College; MA, Columbia University

EDITH LENEL, Professor Emerita of German; MA, Dr. Phil., University of Königsberg; MS, Columbia University

CHARLOTTE LOCKWOOD, Professor Emerita of Fine Arts; BA, College of William and Mary; BS, Newark State College; MA, Columbia University

ORPHEA M. L. LUTZ, Professor Emerita of Psychology; BS, MS, Kansas State University; PhD, New York University

HARLEY P. MILSTEAD, Professor Emeritus of Geography; BE, Illinois State Normal University; MA, PhD, Clark University

WARD MOORE, Professor Emeritus of Music; BMus, Illinois Wesleyan University; MMus, University of Michigan; MA, EdD, Teachers College, Columbia University

ALLAN MOREHEAD, Provost Emeritus; BA, MA, Montclair State College; EdD, Columbia University

DOROTHY MORSE, Professor Emerita of Music; BA, MA, Carnegie Institute of Technology; PhD, New York University

EARL MOSIER, Professor Emeritus of Education; BA, Hope College; MS, PhD, University of Michigan

E. DeALTON PARTRIDGE, President Emeritus; BS, Brigham Young University; PhD, Columbia University

EARL C. PECKHAM, Professor Emeritus of Education; BA, Wesleyan University; MA, EdD, Columbia University

DOROTHY PREISING, Professor Emerita of Music; BS, MA, Columbia University; Diploma, Juilliard School of Music; Advanced Study (Nadia Boulanger)

RUFUS D. REED, Professor Emeritus of Chemistry; BS, Wilmington College; MA, PhD, Ohio State University

JOHN J. RELLAHAN, Professor Emeritus of Social Sciences; Dip., Wisconsin State Teachers College; BA, MA, University of Wisconsin; PhD, New York University

DORIS RUSLINK, Professor Emerita of Home Economics; BS, University of the State of New York (Buffalo); MA, PhD, New York University

KENNETH ORVILLE SMITH, Professor Emeritus of Physics; BA, Cornell College; MA, PhD, University of Illinois

PROFESSIONAL LIBRARY STAFF

RUTH BEACH, Assistant Periodicals Librarian; BA, Cedar Crest College; BLS, McGill University

FRANK B. EDGCOMBE, Non-Print Media Librarian; BA, Bloomfield College; MA, New York University; Diploma Educational TV, New York University; MLS, Rutgers University

ELSIE O. GIBSON, Library Science Coordinator; BA, Syracuse University; MA, Radcliffe College; MLS, Rutgers University

BLANCHE W. HALLER, Director of Library Service; BA, Brooklyn College; BS in LS, Columbia University

SELMA S. HARRIS, Reference/archives; BA, Woodbury College; BA, Mexico City College; MLS, Rutgers University

LAURA N. LEVY, Catalog Librarian; BA, Brooklyn College; MLS, Pratt Institute

DOROTHY O'CONNOR, Circulation Librarian; BA, Fordham University; MS in LS; Columbia University

ROBERT J. RICHARDSON, Reference/Orientation; AB, William Jewell College; MA, Michigan State University; MLS, Western Michigan University

PATRICIA D. SANDERS, Coordinator of Reference Services; BA, Marywood College; MLS, Rutgers University

MARIAN SIEGELTUCH, Assistant Director of Public Services; BA, George Washington University; MLS, Rutgers University

NORMAN STOCK, Reference/Interlibrary Loan Librarian; BA, Brooklyn College; MLS, Rutgers University; MA, Hunter College

ELEANOR VIVIANI, Catalog Librarian; BA, Rutgers University; MLS, Pratt Institute

ALBERT WANG, Periodicals Librarian; BEd, Taiwan Normal University; MEd, SUNY; MSLS, Drexel University; Sixth Year Certificate in Information Science, Rutgers University

RUTH WANG, Head Catalogue Librarian; BA, National Center University of China; MLS, Rutgers University

JOYCE WILOWATYJ, Reference/Government Documents Librarian; BA, Montclair State College; MLS, Pratt Institute

ZDENKA WINTERS, Assistant Director for Technical Services; MLS, Charles University of Prague

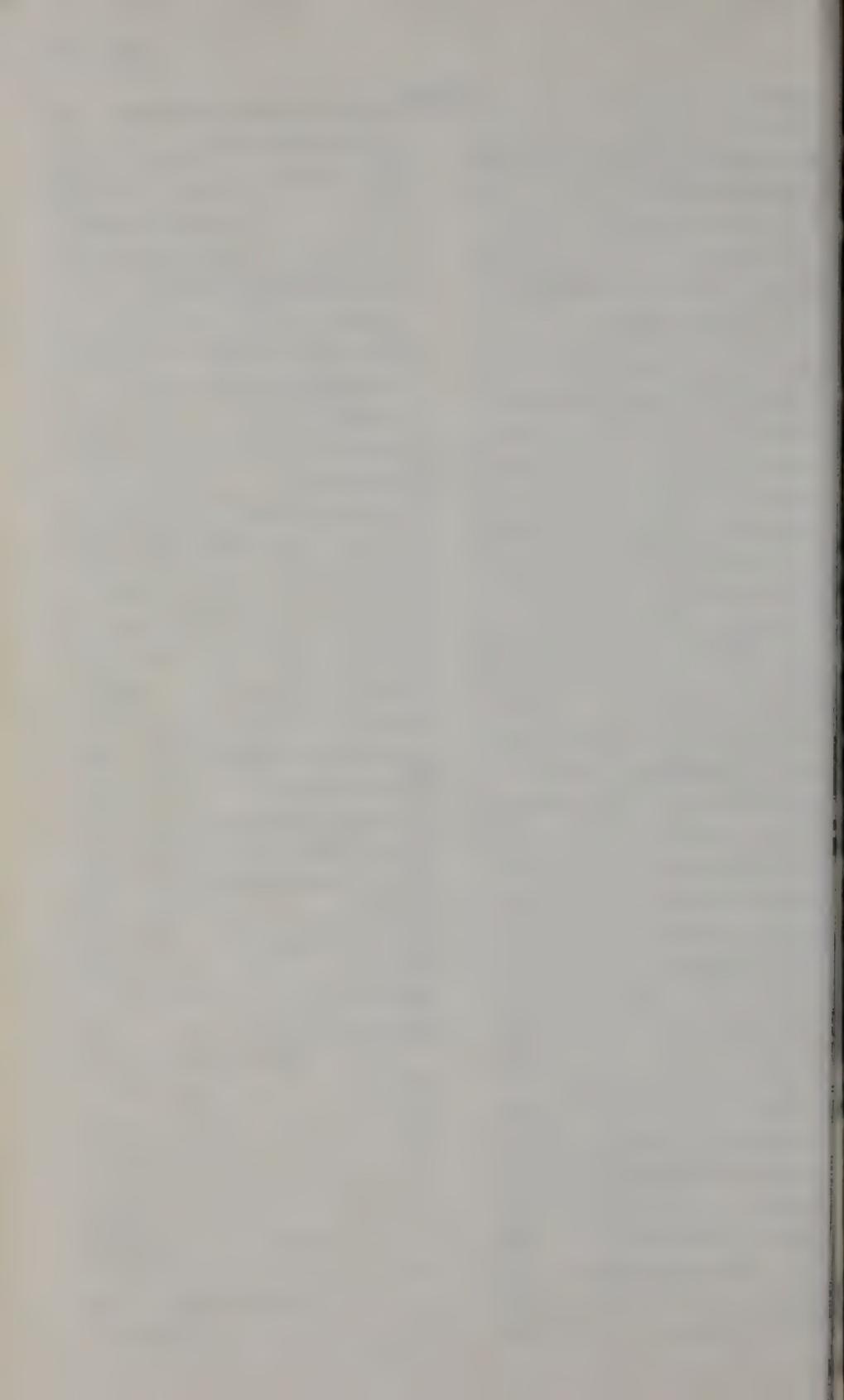
PAULINE YEH, Acquisitions Librarian; MALS, University of Michigan



INDEX

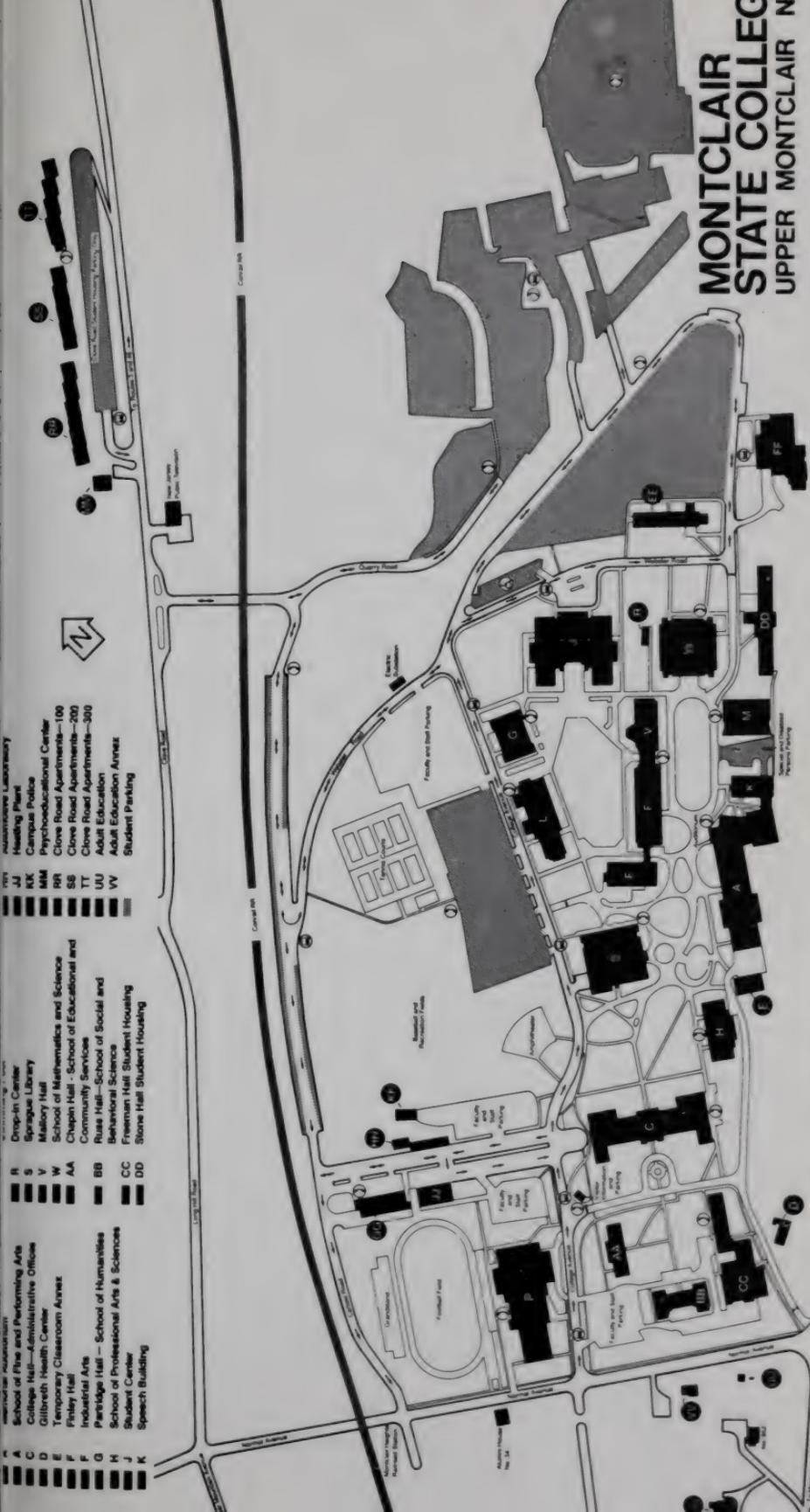
About the College	10	Credit Load	27
Academic Advisement	28	Curriculum and Teaching	44
Academic Furlough	30	Degrees Offered	13
Academic Regulations	27	Degree Requirements—	
Accreditation and Memberships	10	Undergraduate	23
Administration	7	Economics	263
Administrative Sciences	189	Educational and Community	
Admissions	16	Services, School of	43
Adult and Continuing Education	44	Educational Foundation for Human	
Adult Education Resource and		Sexuality	34
Service Center	33	Educational Foundations	50
Advanced Placement	18	Educational Opportunity Fund	11
Alumni Association	33	Educational Leadership	5
Anthropology	253	Employment on Campus	3
Athletics	33	English	10
Attendance Policy	28	Environmental Studies	26
Audit Policy	27	Environmental and Urban and	
Biology	154	Geographic Studies	26
Board of Trustees	5	Faculty	30
Business and Distributive		Final Examinations	2
Education	199	Financial Aid for Students	2
Calendar	6	Financial Support for the College	1
Campus Community Program	11	Fine and Performing Arts,	
Cancellation of Courses	27	School of	
Career Services	34	Fine Arts	
Chemistry	163	Foreign Students	
Classics	101	French	1
Class Standing	30	Geography/Urban Studies	2
CLEP	18	Geoscience/Physics	1
Communication Sciences		German	1
and Disorders	258	Goals	
Computer Center	34	Governance	
Computer Science	169	Grades	
Conduct and Discipline	32	Graduate Level Courses	
Cooperative Education	11	Health Professions	21
Counseling, Human Services		Health Services	
and Guidance	56	History	
Credit by Examination and		History and Governance	
Experience	18	Home Economics	33

Honors	32	Religious Facilities and Programs	37
Housing	35	Remediation Programs	38
Humanities, School of	99	Requirements	23
Independent Study	29	ROTC	38
Industrial Education and Technology	224	Russian	124
International Education, Center for .	12	Scholarships and Awards	21
Intra-Collegiate Academic Programs	11	Second Baccalaureate	18
Italian/Spanish	142	Second Careers Program	12
Law Enforcement Education Program	12	Services and Facilities	33
Librarians	316	Social and Behavioral Sciences, School of	252
Library	35	Sociology	298
Linguistics	130	Spanish/Italian	142
Mathematics	168	Speech and Theater	85
Mathematics and Science, School of	154	Student Affairs and Activities	40
Media Center	36	Student Center	38
Music	73	Student Personnel Services	39
New Jersey School of Conservation	251	Student Services	33
Officers of the College	5	Summer Session	31
Organizations	40	Theater and Speech	85
Parking Facilities	36	Transcripts	32
Part-Time Programs	14	Transcultural Studies	283
Philosophy/Religion	135	Tuition and Fees	20
Physical Education	232	Undergraduate Programs	13
Physics/Geoscience	176	Upward Bound	12
Plagiarism	32	Urban Studies/Geography	267
Political Science	286	Veterans	17, 19
Probation	30	Weekend College	12
Professional Arts and Sciences, School of	188	Withdrawal	31
Sycho-Educational Center	37	Women's Center	12
Sycho-logical Counseling	37	Women's Studies, Minor in	14
Sycho-logy	291		
Recreation Professions	243		
Refund and Withdrawal Policies	20		
Registration	27		
Religion/Philosophy	135		



MONTCLAIR STATE COLLEGE

UPPER MONTCLAIR NJ



MONTCLAIR STATE COLLEGE
UPPER MONTCLAIR, N.J. 07043

Selma Kars Key
Library

FOURTH CLASS BOOK RATE

Return Receipt Requested



Montclair State College

79/81

Undergraduate Catalog

Montclair State College is an equal opportunity/affirmative action institution and does not discriminate on the basis of sex, race, color, national origin, age or physical handicap in providing access to the College's benefits, services, and employment opportunities in compliance with relevant federal and state legislation.

Inquiries may be directed to Dr. Edward C. Martin, Associate Dean of Students (and Designated Employee for Title IX and Section 504 compliance), 217 College Hall, 893-4118, or Ms. Anita Walters, Director of Equal Opportunity/Affirmative Action Office, 318-A College Hall, 893-4349.

The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice of obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

**Montclair State College Bulletin
Volume 72, Number 3**



**Office of Publications
Montclair State College
Upper Montclair, N.J. 07043**

Montclair State College



Undergraduate Catalog

How to Get to Montclair State College

Location

Montclair State College is on Valley Road and Normal Avenue, Upper Montclair (at the light). The College is one mile south of the junction of Routes 3 and 46 on Valley Road.

Directions for Reaching the College

From Bloomfield Avenue, Montclair Center proceed north on Valley Road—two blocks to the Normal Avenue light.

Heading east on Route 46, the landmark is Primrose Diner; take the next right, Valley Road—one mile to the light at Normal Avenue.

Heading west on Route 46, the landmark is the junction with Route 3. Turn on Valley Road to Montclair, bear right on cloverleaf and proceed south under Route 46—one mile to the light at Normal Avenue.

From the Turnpike north of Exit 11 or south of George Washington Bridge, turn onto Route 3 West or Route 46 West, then as above.

From the Turnpike south Exit 11, leave the Turnpike at Exit 11 and follow directions for Garden State Parkway North.

Heading north on the Garden State Parkway, turn left at Exit 153B and proceed west on Route 3 to Valley Road.

Heading south on the Garden State Parkway, turn at Route 46 West (Clifton Exit 154) then to Valley Road. If you miss that turn, continue south to Exit 151, Watchung Avenue, then west to Valley Road and north to light at Normal Avenue.

The No. 60 Public Service Bus from Newark to Montclair terminates at the southwest end of the campus.

The No. 66 DeCamp Bus from New York, which leaves every hour on the half hour from Platform 73, Port Authority Bus Terminal, stops at Valley Road and Mt. Hebron Road—one block from the campus.

Conrail, Montclair Heights Station, is at the southwest corner of the campus.

WHEN IN DOUBT

CALL

201-893-4000

Table of Contents

About the College	1
Academic Degree Programs	2
Intra-Collegiate Academic Programs	4
Admissions	8
The Academic Program/Undergraduate Degree Requirements	13
Academic Regulations	17
College Services and Facilities	23
Student Affairs and Activities	29
School of Education and Community Services	31
School of Fine and Performing Arts	45
School of Humanities	95
School of Mathematics and Science	151
School of Professional Arts and Sciences	183
School of Social and Behavioral Sciences	240
Administration, Faculty and Library Staff	288
Index	297



David W.D. Dickson, BA, MA, PhD, LHD
President, Montclair State College

Board of Trustees

<i>Chairman</i>	Millicent G. Anisfield
Gerald A. LeBoff	
<i>Vice Chairman</i>	Melvin Hausner
Ernest M. May	W. Lincoln Hawkins
<i>Secretary</i>	Borden R. Putnam
Mary Lee Jamieson	Lillian M. Valdes
David W.D. Dickson, <i>Ex Officio</i>	Stephen G. Weiss

Student Representative, Brian Cige

Officers of the College

<i>President</i>	<i>Deans of the Schools</i>
David W.D. Dickson	Philip S. Cohen, <i>School of Social and Behavioral Sciences</i>
<i>Vice President for Academic Affairs</i>	W. Bernard Fleischmann, <i>School of Humanities</i>
Irwin H. Gawley, Jr.	Katharine B. Hall (Interim), <i>School of Professional Arts and Sciences</i>
<i>Vice President for Administration and Finance</i>	Frederick J. Kelly, <i>Director, Division of Business</i>
Elliot I. Mininberg	Donald M. Mintz, <i>School of Fine and Performing Arts</i>
<i>Vice President for Academic Services</i>	Ercell I. Watson, <i>School of Education and Community Services</i>
Robert E. MacVane	Carol Jean Ehlers (Interim), <i>Division of Graduate Studies</i>
<i>Dean of Students</i>	
Lawton W. Blanton, Jr.	
<i>Director, Sprague Library</i>	
Blanche Haller	

COLLEGE ADMINISTRATION

OFFICE OF THE PRESIDENT

David W. D. Dickson, Ph.D., L.H.D., President

Helen M. Ochs, Special Assistant to the President and Secretary to Board of Trustees

Kelsey Murdoch, B.A., Director, College Development

Cynthia A. Lepre, B.A., Director, Alumni Affairs

Anita Walters, L.L.B., Director of Equal Opportunity/Affirmative Action

OFFICE OF ACADEMIC AFFAIRS

Irwin H. Gawley, Ed.D., Vice President

Anthony R. Kuolt, M.Ed., Administrative Associate

Robert M. Ogden, M.B.A., Grants Administrator

Michael A. Puglisi, M.A., Assistant Dean, School of Professional Arts and Sciences

Harry R. Rosensweig, M.A., Director, Cultural Planning

George C. Westmoreland, D.Psy., Director, Psycho-Educational Center

Curtis Dixon, B.A., Assistant Director, Upward Bound Program

Gerald A. Kandel, M.A., Teacher I, Speech and Theater

Julie A. Marchini, B.A., Assistant Director, Cultural Planning

Sheila McKenna, Assistant Director, Music Preparatory Division

Martin L. Smith, M.A. Supervisor, Performing Arts Facilities

Graduate Studies

Carol Jean Ehlers, Ph.D., Interim Dean

Stephen Dobish, Ed.D., Academic Counselor

School Academic Counselors

Ruben Arango, M.A.

Humanities

Gay DiVirgilio, M.A.

Professional Arts and Sciences

Peter Donovan, M.A.

Humanities

Gail Feinbloom, M.A.

Social and Behavioral Sciences

Marie Frazee, Ed.D.

Mathematics and Sciences

Jose Gorrin, M.A.

Social and Behavioral Sciences

Marc Schaeffer, M.A.

Professional Arts and Sciences

Carl Snipes, M.A.

Social and Behavioral Sciences

Gladys Tate, M.A.

Professional Arts and Sciences

William Welsch, M.A.

Professional Arts and Sciences

Marcella West, M.A.

Education

Laura Woodson-Hammond, M.A.

Fine and Performing Arts

Communication Disorders—Demonstration Program

Antoinette Spiotta, M.A., Director

Susan A. Cook, M.A., Assistant Director

Holly L. Blumenstyk, M.Ed., Teacher I.

Olga Hrycak, M.Ed., Teacher I.

OFFICE OF ADMINISTRATION AND FINANCE

Elliot I. Mininberg, Ph.D., Vice President

Richard R. Davis, M.A., Director of Personnel

William J. Kervick, B.S., Director of Business Services

Peter R. Macagne, B.S., Assistant to Vice-President

Joseph E. McGinty, Engineer in Charge of Maintenance

Charles W. Moore, M.B.A., Assistant Director of Business Services

Jerome R. Quinn, P.E., Director, Institutional Planning

Jayne Rich, B.S., Chief, Campus Police, Security and Safety

Doris B. Stickel, Director, Faculty-Student Cooperative
Henry T. Thompson, Ph.D., Chief, Budget Analyst
Malcolm L. Truesdell, Director, Computer Center

Athletics

William Dioguardi, M.S., Director
Oliver S. Gelston, M.A., Assistant Director
Fred Hill, B.A., Assistant Director
Donna J. Olson, M.S., Assistant Director
Sanford Biber, B.A., Trainer
Charles J. DiPaolo, B.S., Athletic Coach
Enrico N. Giancolo, B.A., Athletic Coach
Gregory L. Lockhard, M.A., Athletic Coach
Michael D. Willis, M.S., Athletic Coach

OFFICE OF ACADEMIC SERVICES

Robert E. MacVane, M.Ed., Vice President
John H. Leffler, M.A., Assistant Director of Continuing Education

Admissions

Alan L. Buechler, Ed.M. Director
Mary B. Wilkin, M.A., Associate Director
Frank C. Erdman, M.A., Assistant Director
Abie Flippen-Smith, B.A., Assistant Director
Ada Ortiz, B.A., Assistant Director

Registrar

Marshall A. Butler, M.A., Registrar
Sally B. Ayrey, M.A., Associate Registrar
Klea S. Hartman, M.A., Assistant Registrar
Jesse J. Young, B.A., Assistant Registrar
Sally G. Pollock, M.A., Assistant Registrar
Denise M. DeBlasio, B.A., Evaluator
M. Patricia Fries, M.A., Evaluator
Emily Mudryk, M.A., Evaluator
Ruth Overholser, M.A., Assistant Registrar
Dianne Rivetti, M.A., Evaluator

Library

Blanche W. Haller, B.A., B.L.S., Director of Library Services
Marion Siegeltuch, M.L.S., Assistant Director for Public Services
Zdenka Winters, M.L.S., Assistant Director for Technical Services

Media Center

Robert R. Ruezinsky, M.A., Director
John F. Diglio, M.A., Associate Director
David S. Fogg, M.A., Associate Director
Balubhai C. Mistry, Head Technician
William E. Puskas, Television Coordinator

Publications

Rita Heger, B.A., Director

Intra-Collegiate Academic Programs

Curtis Jackson, Ed.D., Director
Alicia P. Savage, M.A., Assistant Director, and Director, Second Careers Program
Reuben Johnson, M.A., Director, Educational Opportunity Fund
Freyda Lazarus, M.A., Director, Cooperative Education

John G. Redd, Ph.D., Director, Upward Bound
John J. Sanz, M.S., Director, Weekend College
Constance Waller, Ed.D., Director, Women's Center
Kwaku Arman, Ed.D. Assistant Director, EOF
Geraldine Barlow, M.A., Academic Advisor, EOF
Evelyn DelToro, M.S., Academic Advisor, EOF
Kay Fowler, M.A., Coordinator, Cooperative Education
Deborah Gilbert, M.A., Academic Advisor, EOF
Mary V. Larsen, M.A., Academic Advisor, EOF
Carlos Ortiz, M.A., Academic Advisor, EOF
Moreen Rabino, M.A., Field Coordinator, Cooperative Education

Centers of Adult Continuing Education

Ray J. Ast, M.A., Administrative Director
Joann L. Berg, M.A., Assistant Director, Adult Education Resource Center
Warren S. Ceurvels, M.A., Director, Adult Education Resource Center
Beverly G. Schwartz, M.A., Director, Resource Dissemination Center
Frances M. Spinelli, M.A., Director, National Adult Education Clearinghouse
Richard O. Taubald, Ed.D., Principal Associate, CEU Technical Assistance
Virginia A. Wallace, M.A., Assistant Director, Fundamental and Continuing Education

OFFICE OF STUDENT PERSONNEL

Lawton W. Blanton, M.A., Dean of Students
Edward C. Martin, Ed.D., Associate Dean of Students
James E. Harris, M.A., Assistant Dean of Students
Lillian Rosenberg, M.D., College Physician
Jon F. Sobecki, M.A., Academic Counselor, Undeclared students

Career Services

Patricia Haney, M.A., Director
Eileen Bruck, M.A., Assistant Director
Peter M. Prichard, M.A., Assistant Director

Counseling and Psychological Services

Susan J. Herman, Ph.D., Director
Robert Goggins, Ph.D., Counselor

Financial Aids

Randall W. Richards, III, Ed.D., Director
Robert Baylor, M.A., Assistant Director
Edith Duroy, M.A., Assistant Director

Housing

Raymond M. Stover, Jr., Ed.D., Director
Lois D. Redd, M.A., Coordinator, Housing and Food Services
John T. Sherman, M.A., Residence Area Manager
Shirley Stetson, B.A., Assistant Coordinator, Housing and Food Services

Student Activities

Thomas F. Stepnowski, M.A., Director
McKinley Boston, M.A., Director, Intramurals and Leisure-Time Activities
Robert Gieza, B.A., Assistant Director
Lee M. Martin, B.S., Assistant Director, Chief Engineer, WMSC-FM
Kathleen E. Ragan, B.A., Assistant Director, Scheduling
Beth Sharp, M.Ed., Assistant Director

Veterans Affairs

William J. Chapman, M.A., Coordinator

About The College

Montclair State College is a publicly-supported institution of higher learning, offering programs on the bachelor's and master's degree levels to 15,000 students.

The College, founded in 1908 as a Normal School, now includes six distinct Schools and a Division of Graduate Studies.

Although the College is large, its individual Schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

Location

The College is located on a 200-acre campus in Upper Montclair, New Jersey, a suburban community fourteen miles from midtown Manhattan. As a result of this proximity to New York, students enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are a part.

Accreditation and Memberships

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates are accepted for membership in the American Association of University Women.

History and Governance

Founded in 1908, the College was a Normal School, oriented to the education of public school teachers. In 1927 it became the State Teachers College at Montclair, with the goal of preparing secondary school teachers. Part-time and extension courses were added to the program in 1929, and the summer session in 1930. In 1932 the State Board of Education empowered the College to give graduate courses and grant the master's degree. In 1958 Montclair State Teachers College merged with Panzer College of Physical Education and Hygiene, and offered a new major in health and physical education.

In July, 1958, the official institutional name became Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then the College has placed increasing emphasis upon the education of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers; at the same time it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey, appointed by the State Board of Higher Education and confirmed by the governor. The president of the College is a member, ex officio. Faculty and student representatives are elected by their peers to meet with the board. This change in governance, which took effect on July 1, 1967, gave the College increased independence in the management of its program.

Financial Support

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources.

Goals

Since the establishment of the College's own board of trustees, the program offerings of the College have constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and science and professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education; recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual in an expanding society.

Academic Degree Programs

Montclair State College is organized into six schools—Education and Community Services, Fine and Performing Arts, Humanities, Mathematics and Science, Professional Arts and Sciences, Social and Behavioral Sciences—each with undergraduate and graduate courses. Major programs and degrees offered are listed below. Additional information regarding minor programs, teaching certificates, and specialized areas of concentration is described in the catalog under the appropriate schools and departments.

SCHOOL	MAJOR	DEGREES OFFERED
Education and Community Services	Administration and Supervision	MA
	Counseling, Human Services and Guidance	MA
	Master of Arts in Teaching	MAT
	Reading	MA
Fine and Performing Arts	Fine Arts	BA, BFA, MA
	Music	BA, BMus, MA
	Music Therapy	BA
	Speech/Theater	BA, BFA, MA
	Dance	BFA
Humanities	Classics	BA
	Latin	BA
	English and Comparative Literature	BA, MA
	French	BA, MA
	Linguistics	BA
	German	BA
	Spanish	BA, MA
	Italian	BA
	Philosophy	BA

	Philosophy/Religion General Humanities	BA BA
Mathematics and Science	Biology Chemistry Computer Science Geoscience Mathematics Physics	BS, MA BS, MA BS, MA BS, MA BS, MA BS
Professional Arts and Sciences	Business Administration Business and Distributive Education Allied Health Professions Health Professions Home Economics Industrial Education and Technology Physical Education Recreation Professions	BS BA, MA BS BS, MA BA, BS and MA*
Social and Behavioral Sciences	Anthropology Economics Environmental, Urban and Geographic Studies History Political Science Psychology Educational Psychology Communication Sciences and Disorders Transcultural Studies Latin American Area Studies Asian Studies Social Sciences Sociology	BA BA BA, MA BA BA BA, MA MA BA, MA BA BA BA BA MA BA

Part-Time Bachelor's Degree Programs

These undergraduate programs are designed for qualified graduates of accredited high schools, students who have earned the New Jersey High School Equivalency Certificate or qualified transfer students from other colleges who are interested in pursuing college study on a part-time basis in the late afternoon and evening during the academic year (September-May) and in the daytime, later afternoon or evening during the summer sessions (June-August). Part-time courses leading to the bachelor's degree are offered in the fields of allied health (limited to transfers from medical-related A.A. and A.A.S. programs only), anthropology, business administration, communication sciences and disorders (speech pathology), economics, English, environmental, urban and geographic studies, history, home economics, industrial education, mathematics, political science, psychology, and sociology.

Undergraduates in Graduate Programs

Seniors may apply for admission to graduate programs during the semester prior to graduation. Those planning to matriculate in graduate programs at the College should take the aptitude section of the Graduate Record Examination.

Intra-Collegiate Academic Programs

The Office of Intra-Collegiate Academic Programs seeks to meet some of the changing needs of students and of education in the state through ten programs.

Campus Community Program

This program offers alternatives to the regular college curriculum through courses on contemporary concerns, approached in an interdisciplinary manner and leading to community involvement. Requirements are jointly determined by the professor and students.

Cooperative Education

Cooperative Education is a career development program in which students receive up to 16 free elective academic credits for one or more sponsored, supervised work experience related to their academic major and/or career goal. Enrollees are guided by a faculty advisor and participate in concurrent career development seminars.

Departmental Cooperative Education is a special, intensive experience-based learning program to explore, refine and test out skills and interests in the major discipline. Course descriptions and entrance requirements for this option are listed under the appropriate departments: English; industrial technology; physical education; recreation; professional psychology; sociology.

Educational Opportunity Fund

A student accepted into the E.O.F. Program is provided with such supportive services as evaluation, tutoring and counseling. All entering E.O.F. freshmen participate in the Achievement Motivation Development Project. This project attempts to simulate achievement behavior on the part of the student participants who are required to set goals and take responsibility for decision-making.

Center for International Education

The Center administers programs of study outside the United States such as the winter session in Europe and administers low-cost travel and tour programs. It provides information and counseling to Montclair State students wishing to study, travel or work abroad through its library of reference materials on hundreds of available programs.

The Law Enforcement Education Program

The Law Enforcement Program provides academic course work for law enforcement officers as part of the Department of Justice Omnibus Crime Control and Safe Streets Act of 1968. Montclair State is an active member of the N.J. Council of Educational Institutions for Law Enforcement.

Second Careers Program

The Second Careers Program expands the college's service to the community by encouraging the reentry of adults over 25 years of age into higher education. It offers students a credit-bearing reentry seminar, and academic, personal and career counseling. Referral services to appropriate resources for psychological, remedial, medical or financial assistance are also available.

Weekend College

The Weekend College offers courses on Friday evenings, Saturday and Sunday leading

to the bachelor's degree in business administration, mathematics (both in combination with regular day or evening courses), psychology, sociology and Spanish. Courses which fulfill requirements for majors other than those listed above are also offered.

The Weekend College also provides an education designed to meet the needs of the Spanish-speaking bilingual individual and is a valuable cross-cultural experience for English-speaking students seeking to work among the Spanish-speaking. Selected course sections are conducted in Spanish. Full-time counselors are available.

Winter Session

The Winter Session at Montclair State College has as its rationale the twin goals of innovation and flexibility. In a separate period of three weeks in January devoted to intensive work, students are offered the opportunity to take a single course which usually could not be incorporated within the regular semester schedule or take traditional courses which may be organized and presented differently from the usual 16-week pattern of course offerings.

The Winter Session also affords the faculty the opportunity to teach new courses, renovate old courses, design interdepartmental courses, develop study abroad offerings, travel, conduct research, or explore areas of study that are new, different and thought provoking.

The offerings available in the Winter Session are limited, therefore the students and faculty who participate must be imaginative, flexible, competent and innovative.

Upward Bound

Upward Bound is a precollege program designed to generate the skills and motivation necessary for success in education beyond high school among young people from low-income backgrounds with inadequate secondary school preparation.

Montclair State College cooperates with Saint Peter's College in sponsoring this program. The summer component is held on the Montclair State campus and the academic year at Saint Peter's. Sixty students are recruited from Jersey City and ten from Montclair.

Women's Center

The Women's Center focuses on providing services for adult students, faculty, staff and community women in addition to the regular student body. It is also concerned with raising the level of awareness and interests of women and in creating conditions which allow women to share in the opportunities and resources of the college.

There is a weekly Wednesday noon program which includes speakers from on- and off-campus who represent a variety of careers and topics of interest. The schedule of speakers is issued each month.

Women's Studies Minor Program

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice for the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor of the Women's Studies program, Dr. Constance Waller, to work out a suitable course of studies to meet the minor requirements.

The Women's Studies Minor consists of 18 credits as follows:

Requirements

Introduction to Women's Studies: 9 4990 0101

3 s.h.

A team of two or more faculty members from various disciplines, employing scientific, sociological, historical, and artistic insights, methods, and data, examines the sources and meanings of the differential treatments of women in this and other human societies.

Independent Study: 9 4990 0401

3 s.h.

This course, required in the senior year, will have two options: a) advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; and/or b) a practicum of field work in which a student goes out into the community to work with women and to gain data and firsthand experience concerning the practical problems of women within various careers.

Electives

12 s.h.

Department

C 0821 4463	Women and Education in Modern Western Society	Education Foundations
C 0821 0264	Sexism in American Education	Education Foundations
K 1501 0492	Major Women Prose Writers	English
K 1501 0294	Women Poets	English
J 4903 0186	Myths and Images of Women in French Literature	French
N 1505 0096	Women and Language	Linguistics
P 1105 0096	Images of Women in Spanish Literature	Spanish
I 2202 0415	Women in Traditional Society	Anthropology
5 2205 0215	Women in American History	History
6 2207 0214	Women in Politics	Political Science
7 2001 0302	Psychology of Women	Psychology
7 2001 0446	Today's Woman	Psychology
7 2001 0379	Psychology and Literature: Women and Madness (also listed under English J 4903 298)	Psychology
X 1301 0205	Women in Contemporary Society	Home Economics
8 2208 0430	Sociology of Sex Roles	Sociology
W0837 0347	Health Issues Forum: Woman's Health	Health Professions
J 4903 0383	Women in Antiquity	Classics
O 1510 0285	Women in Religion	Religion
		Required Total 18 s.h.

For further information, contact:

Dr. Constance Waller
 Women's Center
 Math/Sci. Bldg., Room 3.
 Tel. 893-5106

Archaeology Minor Program

Jointly sponsored by the anthropology, classics, and fine arts departments, this minor offers the student a balanced interdisciplinary program in the study of ancient cultures. This minor is flexible enough to allow students to explore the newest scientific techniques of excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

An archaeology minor is useful in careers such as publishing, the travel industry,

environmental impact studies, and secondary and college teaching. Those students who wish to pursue advanced work in archaeology or related fields leading to careers in research and teaching, excavation, museum work, and salvage/contract archaeology will find the minor excellent preparation for graduate study especially when combined with a major in an appropriate area such as anthropology, classics, or art history.

Requirements	Semester Hours
I 2202-0306 Introduction to Prehistoric Archaeology	3
J 4903-0181 Classical Archaeology	3
Electives	
Group A: At least 9 hours must be elected from this group, including one course in fine arts.	
Anthropology	
I 2202-0408 Archaeology of Ancient Middle America	3
I 2202-0419 Experimental Archaeology	3
Classics	
J 4903-0281 Greek Civilization	3
J 4903-0282 Roman Civilization	3
J 4903-0351 The City in Antiquity	3
J 4903-0362 Greco-Roman Colonization	3
Fine Arts	
G 1003-0215 Ancient Art of the Near East	3
G 1003-0328 Survey of Greek Art	3
G 1003-0332 Ancient Art of Europe	3
G 1003-0457 Pre-Columbian, Oceanic, and African Art	3
G 1003-0485 Ancient Art of Italy: Etruscan Roman Art	3
G 1003-0458 Traditional Arts of Sub-Saharan Africa	3
G 1091-0330 Museum Practice	3
Group B: Students are encouraged to select one of the following courses.	
Anthropology	
I 2202-0411 Field Methods in Archaeology	3
I 2202-0420 Apprenticeship in Anthropology	6-12
Classics	
J 4903-0375 Study Abroad	credit by evaluation
Fine Arts	
G 1001-0465, 0466, 0467, 0468 Externships and Field Experience	2-8
G 1001-0454 Field Trips in Art History	2-8
REQUIRED TOTAL	
18	

Students may be directed to the collections of the many museums in the metropolitan area for research and study projects. Some students may be able to go abroad to have actual experience in excavation, for which college credit may be obtained. However, direct participation of this kind is readily available for prehistoric American cultures much closer to home, since several such sites, located in northern New Jersey and easily accessible to the college, are currently being excavated under the direction of the Anthropology Department.

Paralegal Studies Minor

Students enrolled in the minor, upon completion, will receive a Certificate of Paralegal Studies or in the case of students enrolling the Spanish Department internships, a Certificate of Paralegal Studies with Hispanic Specialization will be awarded. See page 145.

Admissions

Montclair State College, as an equal opportunity institution, seeks applications from all qualified students regardless of race, creed or national origin. Requests for application forms and inquiries concerning admission should be addressed to: Director of Admissions Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a \$10.00 non-refundable fee.

Decisions are announced on a rolling basis until all spaces are filled.

Accepted students are required to pay a non-refundable \$50 fee by May 1 to hold their places in the class. Accepted students must also file a medical form which will be mailed to them. It should be filled out by a family physician, certifying the candidate's health and physical fitness.

Full-Time Freshman Admissions

Application forms are available from late summer through February 1. Full-time freshmen are admitted only for the September term and should have their applications on file by February 1. Notification is made on a rolling basis beginning in November.

Applicants should take the Scholastic Aptitude Test of the College Entrance Examination Board, no later than December of the senior year. Application for the test is made to the CEEB, four weeks before the desired examination date.

Achievement Tests are not required, but candidates wishing to demonstrate strengths in specific areas may submit achievement scores, taken no later than December of the senior year.

Applicants must present a certificate of graduation from an approved secondary school (or a High School Equivalency Certificate), showing the following college preparatory units:

English	
American History, Problems of Democracy	
Mathematics	
Science	
Foreign Languages	
Electives in social studies, science, mathematics or foreign languages	
Free electives	
	TOTAL

Applicants may choose a major upon application, or defer the choice until after the freshman year. In the case of a declared major, the admissions staff will give attention to the preparation and demonstrated interest in the major; appropriate Achievement Test scores may be submitted in the application material for this reason.

Admission to physical education, fine arts, music or speech and theater depends upon successful completion of department tests, auditions or interviews.

Educational Opportunity Fund Admissions

The Educational Opportunity Fund (E.O.F.) Program is designed to recruit and admit disadvantaged students, in accordance with the provisions of the Educational Opportunity Fund Act of 1968. Academic support, financial aids and counseling are provided to assist students in adjusting to college life. Admission to the E.O.F. Program is based upon financial need and the potential to do college work, as shown through traditional and non-traditional indicators. Candidates who accept admissions to the E.O.F. Program are required to attend a pre-freshmen six week summer program.

Applications should be filed in the Office of Admissions before March 1 of the year in which entrance is required.

Undergraduate Transfer Admission

Students who have been fully matriculated at another college or university file applications for transfer admission through the Office of Admissions.

The deadline for completing a transfer application is May 1 for the fall semester and November 1 for the spring semester.

Transfer applicants must have accumulated 15 semester hours of "C" work or better at an accredited institution before making application. Departments and Schools with performance criteria make final decisions in their respective areas. The College closely follows established guidelines of regional and national accrediting agencies when evaluating transfer credits.

Applicants who have completed the regular program leading toward an Associate of Arts or Associate of Science transfer diploma may receive admission at the junior level, provided transfer admission requirements of the College have been met. Transfer applications from students who have been in terminal professional or technical programs, and those who have not completed a county or junior college transfer degree program will be evaluated on the basis of the specific courses they have taken and their applicability for transfer credit.

Foreign Student Admission

Students from foreign countries must complete an application for admission through the Office of Admissions.

Students from non-English speaking countries are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Veteran Admission

The College is receptive to the special needs of veterans, who have their own set of deadlines (i.e., expiration date of benefits, early outs, etc.). Veterans are urged to seek information concerning admission to the College throughout the year. A veterans' counselor is available on campus to assist veterans with their post-secondary school plans.

Second Baccalaureate Degree

Applicants for a second baccalaureate degree must have an earned baccalaureate degree from a regionally accredited institution, and a grade point average of at least 2.50. Second degree candidates are accepted on a space available basis as determined by the appropriate department.

Students accepted for this program register as undergraduates and are subject to the rules and regulations affecting undergraduates.

The candidate must fulfill all requirements of the degree major and complete a minimum of 32 semester hours in residence.

Part-Time Admission

Part-time students are admitted in February and September if applications are complete before the preceding December 1 or August 1. Part-time students may take a maximum of nine semester hours per semester in late afternoon and evening classes. They may matriculate in 1 of 15 different majors by meeting the same standards and test requirements as full-time students. Provisional matriculation is possible with lesser credentials and without SAT scores.

After 15 credits of "C" or better at Montclair State, matriculation is then possible.

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Entrance Placement (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairman and school dean to determine specific possibilities within their area of competence.

Credit by Examination and Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), or departmental challenge examinations.

The CLEP General Examinations offer entering students the chance to earn up to 27 credits; thus the bachelor's degree may be earned in three years. In addition to the general examination, there are also over 30 CLEP subject matter examinations.

CLEP tests are given nationally during the third week of each month. Since CLEP general examination scores must be submitted prior to enrollment, these tests should be taken at least two months before the beginning of the semester. Montclair State College is a test center and an application for the tests may be obtained by writing to:

CLEP Test Center
Department of Adult/Continuing Education
Montclair State College
Upper Montclair, NJ 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

Veterans' Credit

Veterans who have completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available in the Office of the Registrar.

Schedule of Tuition and Fees, Refund and Withdrawal Policies

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must be a bona fide domicile within the State for a continuous period of one year immediately prior thereto. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and Fees are subject to change at any time by action of the Board of Higher Education, State of New Jersey.

Tuition**Undergraduate:**

resident	\$23.00 per credit
non-resident	\$46.00 per credit

Fees

- General Service Fee, paid each registration \$1.50/s.h.
- Student Building Fee, paid each registration \$3.85/s.h.
(MAX: \$46.20/registration)
- Student Government Association Fee \$2.00/s.h.
(MAX: \$24.00/registration)
- Athletic Fee (full-time undergraduates) \$10.00/semester

Special Fees

- Late Registration Fee: for students whose initial registration for the semester term is during late registration. \$15.00
- Late Payment and/or Dishonored Check Fee. \$15.00
- Change of Class Schedule Fee: for changes or additions to original class schedule. \$5.00/added course
(MAX: \$15/transaction)
- Parking Fee \$10.00/yr.
- I.D. Card Replacement Fee (lost card) \$5.00
- Library Fines: overdue books, periodicals, etc. \$.05/day
- Transcript Fee \$2.00/copy

Academic Special Fees

- Student Teaching Fee \$60.00

• Music Fees: Part-time and graduate. Students registering for applied music courses pay tuition and fees, plus the music fee as listed.

1 semester hour (8 lessons)	\$120.00
2 semester hours (15 lessons)	225.00
3 semester hours (15 lessons)	190.00
4 semester hours (15 lessons)	155.00
6 semester hours (15 lessons)	85.00

All checks should be made payable to Montclair State College.

Payment of Tuition and Fees

1. Students are expected to make payment at the time of registration.
2. Any questions concerning financial aid or deferred payment should be directed to the Financial Aid Office (Room C-311) prior to payment of bill.
3. A copy of the approved deferred payment form or evidence of tuition waiver must be presented in lieu of payment.
4. All checks and money orders should be made payable to: Montclair State College.

Refund and Withdrawal Policies

In accordance with the New Jersey State Board of Higher Education policy dated July 16, 1976, the following uniform schedule of refunds is effective in all New Jersey State Colleges:

1. Tuition and service charges are refunded in full if classes are discontinued by college authorities.	Per Cent Refunded
2. Withdrawal before course begins	100%
3. Withdrawal during first third of course	50%
4. Withdrawal after the first third of course	None
5. Refunds for short term courses will be calculated in the same manner at the time of withdrawal.	

No withdrawals will be accepted after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the office of the registrar receives a written notice from the student.

Student Financial Aid

The Office of Student Financial Aid, realizing that success in intellectual pursuits can be adversely affected by economic difficulties, provides financial assistance to eligible students through the programs listed below:

1. Federally funded programs such as the National Direct Student Loan Program (NDSL), the Supplemental Educational Opportunity Grants (SEOG), Basic Educational Opportunity Grants (BEOG), and the College-Work-Study Program (CWS).
2. State of New Jersey assistance through the Garden State Scholarship, the County College Graduate Scholarship, the Educational Opportunity Fund, and the Student Assistants Program.

Information regarding other sources of assistance including the N.J. Higher Education Assistance Authority Loan Program, the Social Security Administration, Veterans' Benefits, the War Orphans Benefit Program, and the N.J. Rehabilitation Commission may be obtained from the Financial Aid Office or sponsoring agencies.

Programs of financial assistance are revised from year to year and hence both eligibility criteria and the availability of funds may change. For further information, contact the Director of Financial Aid, College Hall, Room 311.

Special Awards, Funds, Scholarships

Montclair State College has received significant financial support for student aid from the Montclair State College Development Fund, the Alumni Association, civic and professional groups, private industry and business, and numerous individuals who share our interest in quality higher education.

There are several special awards, funds and scholarships established by the College's benefactors. To obtain further information contact the Associate Dean of Students, College Hall, room 217.

The Academic Program

Undergraduate Degree Requirements

General Education Requirement	37-48 semester hours
Distribution Requirement	36
Communications Requirement	0-9
Physical Education Requirement	1
Minorities Culture Requirement*	one course
Major Field	32-34
Electives	48-59
	Minimum 128 s.h.

- It is recommended that whenever possible a student complete the general education requirement during the first two years of study.
- Courses in the student's major do not count toward fulfillment of the general education requirement. This restriction does not apply to a second major in cases of a double major.
- No course used in the educational sequence for certification may be credited to fulfill the general education requirement.

*The minorities culture requirement may be fulfilled as part of the general education distribution, the major, or electives.

General Education Distribution Requirement

The general education distribution requirement consists of 36 semester hours from the three areas listed below. The student will select 12 s.h. of general education courses from a minimum of three disciplines in each of these areas. Among the total 36 s.h., the student will include two courses from a single discipline (in the area or discipline of his/her choice). Not all courses in each discipline can be used to fulfill the distribution requirement. See the list of courses in the current *Undergraduate Degree Requirements* booklet.

I. Humanities and the Arts

Educational Foundations

English, Communications

Fine Arts

Foreign Languages (French, German, Italian, Spanish, Russian, Latin, Greek, Portuguese)

General Humanities

Linguistics

Music

Philosophy and Religion

Speech and Theatre

II. Pure and Applied Sciences

Administrative Sciences

Business and Distributive Education

Earth Science

Health Professions

Home Economics

Industrial Education and Technology

Interdisciplinary Science

Biological Science

Mathematics and Computer Science

Physical Education

Physical Science

Recreation Professions

III. Social and Behavioral Sciences

- Anthropology
- Communication Sciences and Disorders
- Economics
- Environmental, Urban and Geographic Studies
- History
- Human and Organizational Processes
- Political Science
- Psychology
- Sociology

Communications Requirement

All students must demonstrate proficiency in three areas of communication: speaking, reading and writing, as outlined below. Successful completion of the basic skills tests will not exempt a student from this requirement.

I. Definitions:

- A. Writing—The communication of information and attitudes in written, formal language with clarity, organization, and consistent use of formal grammar and syntax, including the use of standard library techniques where appropriate.
- B. Reading—The comprehension of the structure and meaning of creative written language at a level which includes the recognition of complex logical, rhetorical and metaphorical patterns.
- C. Speech—The clear and effective comprehension and expression of the spoken American-English language for the purpose of communication, commensurate with individual inherent ability. Those students with serious communication problems will be referred for remedial help.

II. Demonstration of Proficiency:

Levels of acceptable proficiency in writing and reading will be determined by faculty members of the English department; proficiency in speech will be determined by the faculty of that department. It is understood that proficiency means performance above the level of the merely rudimentary. Students must demonstrate proficiency in each of the three of the following procedures:

- A. Transfer Credit
- B. Internal challenge examinations*
- C. Completion of a course at Montclair State College as described below.

Exemptions from Freshman English

1. A student who scores 3 or 4 on the Advanced Placement test is exempted from English 105; the waiver is issued by the director of freshman English. The student is granted 3 credits, however must submit a research paper to the director of freshman English designee to fulfill the College writing requirement.
2. A student who scores above 600 on the English Achievement test is exempted from both 105 and 106; the waiver is issued by the director of freshman English. The student is granted 6 credits but must submit a research paper to the director of freshman English or designee to fulfill the College writing requirement. Once the research paper is accepted the student has completed the Communication requirements in both writing and reading.
3. Exemptions from the College writing requirement can be granted to students who

demonstrate writing and research competence at the same level as those students who successfully complete 105. The student's work will be evaluated by the director of freshman English or designee. This exemption carries no credit.

4. Exemptions from the College reading requirement can be granted to students who demonstrate reading and interpretation competence at the same level as those students who successfully complete 106. The student's work will be evaluated by the director of freshman English or designee. This exemption carries no credit.
5. Students seeking an exemption from 105 or 106 or both, but wants credit, must register for the course or courses and ask the instructor for a challenge examination. The instructor must refer the student to the director of freshman English for evaluation. In the case of 105 the student must submit a research project as part of the challenge process.

III. Communications Courses:

A. Writing:

1. English 100 Writing Workshop;
2. English 103 Special Communication Techniques;
3. English 105 Freshman Composition;
4. English 107 Writing and Literary Analysis I.

B. Reading:

1. English 106 Introduction to Literature;
2. English 108 Writing and Literary Analysis II;
3. Any course dealing with the critical reading of imaginative literature in the original language, here understood to be English.

C. Speech:

1. Speech 100 Fundamentals of Speech—Teacher certification;
2. Speech 101 Fundamentals of Speech—Communications Requirement;
3. Speech 102 Basic Speech Skills;
4. Speech 103 Voice and Speech Improvement (for Speech and Theater majors only);
5. Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns;
6. Requirement can be met through examination. Application for this examination can be made in early October or early February at the department of speech and theater (A-100). Passing the examination does not grant semester hour credit, only satisfaction of the speech requirement.

V. Provisions for non-native speakers of English

Those students who take the tests especially designed for non-native speakers of English and who do not demonstrate an acceptable level of proficiency, must take ESOL I, Speech 105, ESOL II and the College Reading Improvement sequence. Upon completion of this program, the students must be retested. Those who do not attain an acceptable level of proficiency will be directed into one of the following courses, dependent upon the individual's needs; ESOL III, or the English Writing Workshop.

- A. Linguistics 111 English for Speakers of Other Languages I (prerequisite for Speech 105 and ESOL II).
- B. Speech 105 Voice and Speech Improvement for Students with Foreign Speech Patterns.
- C. Linguistics 112 English for Speakers of Other Languages II.
- D. Education 0808 0405 College Reading Improvement (1 s.h.)

Physical Education Requirement

Courses which satisfy this requirement are included in the *Undergraduate Degree Requirements* booklet.

A fee is charged for courses such as skiing, scuba diving, ice skating, etc.; check with the department at registration.

Notice from the student's physician should be forwarded to the chairman, department of physical education, if physical limitations are a consideration.

Major Field

Since one of the main purposes of an arts and science program is to give the student broad general education, requirements for an arts and science major are generally limited 32 to 34 semester hours; however, major sequences in broad B.S. programs in the science B.F.A. and professional programs may require a considerably greater number of semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or sub areas of concentration. For details on specific programs, consult the curriculum guides prepared by the school counselor.

Minor Programs

A student may choose an academic minor as a second field of lesser specialization. Requirements for the minor programs are listed in the school curriculum guides.

Minorities Culture Requirement

The purpose of the "minorities requirement" is to ensure that all graduates of MSC are acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S.* Even though women do not represent a statistical minority, they have shared minority status and could be considered part of this requirement. A list of courses is included in the *Undergraduate Degree Requirements* booklet.

*U.S. Department of Labor categories:

1. Blacks
2. Hispanics
3. American Indians
4. Asian or Pacific Islander

Basic Skills

Montclair State College participates in the statewide Basic Skills testing program. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered to matriculated freshman students and to all freshman transfers who have not taken the test at another institution. Upon admission to the College, students will be notified of their test administration date. It is expected that students will take the test prior to their first semester of attendance. Special remedial programs are available for students requiring additional instruction in English and mathematics as indicated by their scores on the NJCBSPT. Meeting Basic Skills requirements in reading, writing, mathematics, and speech must be satisfied by the middle of the sophomore year.

Academic Regulations

Academic regulations in greater detail are published semi-annually in the Schedule of Courses booklet. It is the responsibility of the student to be aware and comply with the current regulations.

Family Rights and Privacy Act

The *Family Rights and Privacy Act of 1974* (Buckley Amendment), designed to protect the privacy of students and parents, includes requirements governing access to students' educational records. Montclair State College has established appropriate procedures for granting access by students to their own educational records within a reasonable period of time, but in no case shall access be delayed more than 45 days after the request has been made. Educational records include those maintained by the Office of Career Planning and Placement, Student Personnel Services (including financial aid information), Graduate Office, Health Services, and the Office of the Registrar.

The College will not release records deemed educationally or personally identifiable without the written consent of the student with certain exceptions. Students may challenge the content of these records to insure that they are not inaccurate, misleading or otherwise in violation of privacy or other rights of students. However, a student does not have the right to a hearing on matters of academic judgement.

For further information consult the College Handbook on the Buckley Amendment located in the Dean of Students' Office.

Registration

General course selection at Montclair State College is accomplished through a mail registration procedure. Students receive registration materials in the mail and return them properly completed to the Office of the Registrar. Since the master schedule is developed and administered through a series of data processing steps, students are urged to read registration materials thoroughly before completing registration forms. Students should consult their advisor or the counseling offices for assistance with this activity.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is sufficient. Students paying on a per credit basis may then register in another course of equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and therefore cannot guarantee students faculty of their choice.

Audit Policy

Undergraduate and graduate students who do not want college credit may audit courses. Persons who wish to audit courses must apply and be admitted to the College, complete the appropriate registration and audit forms and pay the same tuition and fees as other students. Qualified senior citizens may audit courses, on a space available basis, without paying tuition.

Student Credit Load

A student should earn 15-16 credit hours, on the average, per semester. However, students are permitted to enroll for up to 19 semester hours. Overload approval may be granted by the school dean not exceeding one 3 credit course if the student has at least sophomore standing and has a 3.0 or better average for the semester just completed. Exceptions to this policy may be granted only by the school dean. Students requesting 22 credits or more must obtain permission from the Vice President for Academic Affairs.

Registration for overload takes place during the "Change of Program" period. The necessary permission forms may be obtained in the Office of the Registrar.

Attendance Policy

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. The student should ascertain individual attendance requirements from the instructor at the onset of the semester.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of class to confirm his/her registration.

Residence Requirements

A minimum of 32 credit hours must be completed at Montclair State College and the final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a **minimum** of 12 credit hours of upper-level coursework in the major at Montclair State College. Some curricula may require more than this minimum.

Academic Advisement

New students are assigned to a faculty member from their major departments for general counseling and academic advisement. A full-time academic counselor is assigned to each of the Schools to counsel students regarding curriculum planning, registration, and choice of major. There is also an academic counselor available to students who enter the College as an undeclared major.

A freshmen seminar provides students undecided on a major with information concerning educational opportunities and services of the College. Others may enroll on space available basis.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the courses' subject matter, varies with individual professors and classes. A schedule of final examinations is found in the *Schedule of Courses* booklet each semester.

Final examinations (or evaluations) are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades

Marks for coursework are given as follows:

A—excellent	P—pass	NR—not reported*
B—good	F—failure	NC—no credit
C—satisfactory	IN—incomplete work	AU—audit
D—poor	WD—withdrawn	

Academic standing is indicated by a grade point average based on "A" having the value of 4; "B" of 3; "C" of 2; "D" of 1; and "F" of 0. The GPA is calculated by multiplying the number of semester hours for the course times the grade value listed above, adding the values for all the courses taken and dividing by the number of semester hours completed.

*Used if faculty member fails to submit a timely grade report to the registrar.

Incomplete Work

The grade "IN" indicates that the student has not completed the course and that a grade is withheld until the work is performed and approved. It is the student's responsibility to make arrangements with the instructor to complete the required work. The "IN" not replaced by a final grade automatically becomes an "F" by the end of the final examination period of the following semester (not including summer session). Exceptions can be granted only by the appropriate school dean.

Pass/Fail Grading

Students may take one course per semester on a Pass/Fail basis. The entire teacher certification program and courses counted toward completion of the academic major, including collateral courses taken in conjunction with the major, are ineligible. Special programs offering courses only on a Pass/Fail basis such as Field Experience in Education, Freshman Seminar, Reading Lab, and Campus Community Programs may be taken in addition to one regular course per semester on a Pass/Fail basis.

Students may register for the Pass/Fail option by completing a form (available in the Office of the Registrar) prior to the end of the third week of classes for courses of one semester's length or the equivalent of this for short term and summer courses.

Repeated Courses

Students should repeat a course they have failed as soon as possible. A student must repeat a failure if the course is required for graduation. When a course has been repeated at MSC, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally students may not repeat courses in which grades of "D" were received, unless they are sequential courses. These may be repeated only with permission of the Vice President for Academic Affairs. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated.

Independent Study

Students may take courses on an independent basis in accordance with College procedures and with the permission of the instructor and the department involved. A detailed plan of the independent study project must be submitted and approved at the time of registration for the course. Forms for this purpose are available in the office of the registrar.

Official Withdrawal From Courses

Students who wish to withdraw from courses must complete a withdrawal form in the Office of the Registrar. Course withdrawal is allowed until the midpoint of the course. A student who unofficially withdraws from courses, changes an assigned section, or ceases to attend classes, will be given a grade of "F".

Leave of Absence

Students in good academic standing (2.0 cum GPA) may take a leave of absence of one or two semesters by arrangement through the Office of the Dean of Students.

Students who take a leave are guaranteed readmission if they file with the Office of Admissions an application for readmission by August 1 for the fall semester and December for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to return to the College.

Withdrawal from College

A student withdrawing from the College should see the associate dean of students in the Student Personnel Office and complete an official withdrawal form. Signature of a parent or guardian is required on the withdrawal form if the student is a minor. Strict adherence to the withdrawal procedure is necessary for possible consideration of future readmission.

Student Conduct and Discipline

A student enrolled at the College assumes an obligation to conduct himself/herself in a manner compatible with the College's function as an educational institution.

The Dean of Students' Office coordinates student discipline and provides broad counseling of student needs and problems.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Final Evaluation

It is the student's responsibility to complete requirements as prescribed in the *Undergraduate Catalog* under which they entered or as subsequently modified. Graduation requirements include a minimum GPA of 2.0 on a cumulative basis and also in the major. All questions regarding a student's program of studies should be referred to the faculty advisor or a school counselor. *It is the student's responsibility* to meet all graduation requirements.

Seniors who are eligible for graduation must file an application for graduation form in the Office of the Registrar according to the following schedule: by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.

The student will be mailed a copy of his/her final evaluation, which will detail the requirements necessary in order to meet the intended date of graduation.

Students who will be eligible for New Jersey State Teaching Certificates must complete the application and pay the required fees (in the Office of the Registrar) during the following periods: March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; June 15 to July 15 for August graduation.

Transcripts

Students may obtain transcripts from the Office of Registration at a cost of \$2.00. Transcripts must be requested in writing.

Honors

Students graduating with grade point averages of 3.45 or better for all undergraduate courses with a minimum of 60 credits completed at MSC are recognized as honor students. Designations are as follows:

- | | |
|----------------------|-----------------|
| Average of 3.45—3.64 | cum laude |
| Average of 3.65—3.84 | magna cum laude |
| Average of 3.85—4.0 | summa cum laude |

Academic Honors List

The Academic Honors List, issued subsequent to the close of each semester, gives recognition to students with a 3.5 or higher semester GPA if a minimum of 12 credits is earned in courses that contribute to the GPA.

Graduate Level Courses

MSC undergraduates with a grade point average of 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of course work for graduate credit.

Qualified seniors must secure an application from the Division of Graduate Studies Office and have it approved by the registrar, the chairman of the appropriate graduate department and the dean of Graduate Studies.

Students must register separately for these courses, and pay graduate tuition.

Admission of undergraduates to graduate courses does not imply future acceptance into the graduate program. This can only be achieved through the matriculation process. Any courses taken for graduate credit do not apply toward the undergraduate degree.

Class Standing

For sophomore standing a student must complete 26 credit hours with an average of .6; junior standing, 58 credits with an average of 1.8; senior standing, 90 credits with an average of 2.0. For graduation, 128 credit hours are required with a 2.0 average as well as 2.0 in the major.

Academic Retention Standards

All undergraduate students whose cumulative grade point average or previous semester grade point average is below 2.00 are automatically on *probation*. Students on probation are not permitted to remain in the college for more than two consecutive semesters. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to *non-retention* if the cumulative grade point average is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair State and any credits earned through transfer, credit by examination or assessment.

Total Semester Hours Earned		
0-57	58-89	90 plus
minimum Retention	1.60	2.00
academic Furlough	1.40-1.59	1.80-1.99
academic Suspension	1.00-1.39	1.40-1.79
academic Dismissal	0 - .99	0 - 1.19

Students may appeal in writing to the Office of Academic Affairs within seven days of the date of the letter placing them on furlough, suspension, or dismissal.

The appeal letter must state clearly the academic reason for the appeal. If the appeal is because of an incorrect grade on the transcript, a transcript corrected by and signed by the Office of the Registrar should be delivered to the Office of Academic Affairs.

Academic Furlough

Academic furloughs may be granted to students whose cumulative GPA is below retention but not more than 0.20 below retention and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he/she may not take course work at Montclair State.

Students granted an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic Furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the

student does not perform at a 2.0 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Academic Suspension

Academic suspensions are given to students whose cumulative GPA is from 0.21 and 0.40 below the retention level and/or are not making satisfactory progress for the degree. When a student is on academic suspension, he/she may not take course work at Montclair State.

Students granted an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

A student readmitted from academic suspension is given two semesters to demonstrate satisfactory progress for the degree. If the student does not perform at a 2.0 level the first semester back, or does not demonstrate satisfactory progress towards the degree, the student is given an academic dismissal.

Academic Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.4 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the college.

Summer Session Attendance at MSC

MSC undergraduates wishing to attend summer session at MSC must obtain a summer session registration form on which desired courses are listed. Undergraduates may enroll for a maximum of nine semester hours during the six-week summer session although a lighter load is recommended. To be eligible for summer session, students must meet retention standards of the College at the time of registration and secure the signature of their academic counselor on the summer session registration form. Courses for undeclared students are reviewed by their academic counselor.

Summer session does not have a separate admissions date. Students accepted in September may begin in the summer if they wish.

Visiting Students

Visiting students from other colleges may attend summer session for either semester showing a letter of permission from their home college at registration time. Enrollment is on a space-available basis and no permanent record is set up at Montclair State. A visitor who wishes to remain at Montclair State College must file an application before the appropriate deadline for the next semester.

MSC Students Taking Courses at Another Institution

Students wishing to take courses at another institution must complete the appropriate form available in the Office of the Registrar and obtain approval from their major department chairman. Students undecided on a major must obtain permission from their counselor. Rules concerning transfer credit apply to summer work taken at another institution. This procedure must be completed prior to taking the course.

College Services and Facilities

Adult Education Resource and Service Center

The Center offers in-service training of teachers in programs of adult education, with emphasis on reading improvement for the undereducated adult. It maintains a library for curricula development and instruction, develops low-literacy materials and conducts seminars to aid municipal agencies in communicating with their clientele.

Alumni Association

Graduates of Montclair State are members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair.

Athletics

Intercollegiate athletics are coordinated by a board of student, faculty and alumni representatives called the Montclair State College Athletic Commission. The intercollegiate program provides students of all the Schools with common and unifying activities.

The women's varsity program includes basketball, fencing, field hockey, gymnastics, softball, swimming, tennis and track. The College is a member of the Association of Intercollegiate Athletics for Women and the Eastern Association of Intercollegiate Athletics for Women.

The men's intercollegiate sports are baseball, basketball, cross-country, fencing, football, golf, lacrosse, soccer, tennis, track and wrestling. Rules of eligibility are determined by the College, the Eastern College Athletic Conference and the National Collegiate Athletic Association.

All participants in the intercollegiate program must pass a medical examination each year.

Physical facilities include:
Panzer Gymnasium—Regulation size swimming pool; three basketball courts; gymnastic facility; wrestling room and sauna bath; weight-training facilities; indoor batting cage for baseball and golf; and separate training rooms for men and women.

Prague Field—seating for six thousand; artificial turf; permanent lighting system; cinder track (all home football games, some lacrosse, and soccer are scheduled for this facility).

Ittser Field—Baseball diamond; practice area for football; and intramurals. Eight tennis courts and a lighted platform tennis court are adjacent to field.

Utility Field—Practice area for various activities.

Demand *new* Campus Employment

There are a limited number of openings for employment on campus available to full-time students who are taking courses at Montclair State College. Students may be employed either under the College Work Study Program or Student Assistance Program, depending upon financial need.

For further information, inquire at the Financial Aid Office, College Hall, Room 311, (01) 893-5244.

Career Services

The purpose of Career Services is to provide resource information and career counseling

for students and alumni seeking help in utilizing their college degrees in satisfying careers. The Office serves both students and graduates who are unsure of career directions as well as those who have particular goals in mind.

Students are assisted by the office with career counseling, seminars, on-campus recruitment, Career Library, credential service and full-time and part-time job openings. Career Services offers resource information on insurance, banking, law, Federal and State Civil Service, manufacturing, social service agencies as well as many other career fields. Early contact during the undergraduate career is advisable.

Computer Center

The Computer Center provides facilities for both academic and administrative functions of the College. In consortium with the other state colleges and Rutgers University, the College offers computer services using the latest technology available and is a joint owner of ECN, The New Jersey Educational Computer Network.

The College offers a variety of services from two locations. The administrative support personnel are housed in College Hall and all administrative data processing is handled there. Several keypunch and unit record devices are available at the Center for faculty or student use, including an IBM 1130 Computer for processing batch jobs through the 370/168 : ECN.

The College offers support for the computing requirements of the academic areas in the Math/Science Building, Room 110. There is a batch Remote Job Entry Terminal as well as 13 Timesharing Terminals, where students and faculty may use a wide assortment of languages and methods offered through the 370/158-370/168.

There are handbooks and reference documents available to those wishing to use the various services at both locations.

Health Services

The staff of the College Health Center is comprised of one doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance, providing accident and sickness benefits, is available at moderate annual premium of \$22.50, payable at registration. Participants in college athletics are required to have this coverage. Additional information is available from the Student Personnel Office, College Hall, Room 217, or the Health Center.

Housing

Students may apply for on-campus housing after being accepted for admission. Assignments are made for one year only to one of ~~four~~ residence halls or the Clove Road Apartment Complex. The Residence Hall Federation, housing officers and hall directors determine policies for the buildings. Undergraduate resident assistants help freshmen adjust to residence life.

Students who cannot be accommodated on campus are assisted in finding housing in private homes and apartments in the area. The Off-Campus Housing Office provides assistance in all matters related to off-campus housing.

All housing assignments are made without regard to race, creed, color, national origin or ancestry.

Library

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. Academic support is provided for all undergraduate, graduate and

special programs offered by the College. Librarians are on hand to guide students in the use of the library's substantial and constantly expanding collection of books, periodicals and various forms of non-print media such as microforms, cassettes, video cassettes, film loops, discs, etc.

The library is a depository for United States and New Jersey Government publications, and holds special collections that include the China Institute Library and four important poetry collections. Orientation and reserve materials are provided on request for professors and interlibrary loans are available to all members of the College. During semesters, the library is open seven days a week.

Library facilities include study tables, individual carrels, large and small conference rooms and lounge areas. The smoking lounge and a student typing room are located on the lower level. Copying facilities for both hard copy and microforms are available at nominal cost.

Media Center

The Media Center has been an instructional support service of the total College community for over thirty years. Its primary function has been to provide class instructional materials of non-book nature for use by faculty and students. The program and student activities frequently require the use of communication media and ancillary materials. The Media Center has undertaken to provide service to these academic endeavors. It offers support service rather than direct instruction, through purchasing, distributing and circulating audio-visual equipment. It maintains, services, and repairs all audio-visual equipment on campus.

Security and Safety

The following is a synopsis of the parking and traffic regulations for the MSC campus. Contact the Office of Campus Police and Security for the entire regulation listing (893-5222). No person owning or operating a motor vehicle on campus shall park unless the motor vehicle displays a current, valid parking permit or decal. Decals are valid from September 1 to August 31 of the academic year issued. Overnight decals are available to resident hall students—150 are appropriated.

Except for emergency vehicles, no person shall park or stand a vehicle at any time on any roadway, driveway, street, sidewalk, yellow-painted curb, or areas designated as NO PARKING areas. No person shall park in a restricted parking area without current decal or permit for that area. No person shall park in an area designated for disabled persons unless vehicle displays a current disability decal or insignia or license plate.

No person shall park or stand a vehicle as to obstruct access to fire hydrants, oil fills, loading zones, or as to obstruct movements of another vehicle. Parking is prohibited in all lots between the hours of 1:30 a.m. to 6:00 a.m.; except for Lots 12 and 15 for vehicles displaying a valid overnight decal or permit.

Speed limit on all campus roads, including parking lot lanes, is 15 miles per hour; fines are issued for exceeding the limit; mandatory court appearance for NJ residents exceeding speed limit by more than 20 m.p.h.

Vehicles will be towed if in violation of parking or standing vehicle as to obstruct or impede normal traffic flow, block an entrance, exit, curb cut for use of handicapped person, loading zone, fire hydrants, reserved parking space, oil fills or present in any way a safety or traffic hazard.

Visitors shall not park a motor vehicle on campus unless the visitor has obtained a Visitor's Parking Permit from the Campus Police Department, either at the Information Booth or at Campus Police Headquarters.

All New Jersey State motor vehicle regulations may be enforced on this campus.

Parking Facilities

The College maintains several parking lots for use by students, as designated on all campus maps. The College assumes no responsibility for cars or their contents while parked.

Vehicles and Parking on Campus

1. A current appropriate parking decal must be properly displayed in the following manner:

auto, inside left rear passenger window; truck, inside lower left hand side of rear window; motorcycle, affixed next to the New Jersey inspection sticker.

Failure to display a current appropriate decal will result in the issuance of a *municipal summons* returnable in either the Little Falls or Montclair municipal courts.

Regular decals: Regular decals may be purchased at the Student Vehicle Registration Table during registration or at the College Business Office, College Hall, Room 218. No more than two decals will be issued per student. Evidence that both vehicles are registered in the same family name must be presented. The fees for vehicle registration are:

automobiles and trucks:

\$10 for the first vehicle registered

\$ 5 for the alternate vehicle

\$ 5 for Summer Session decal only.

Overnight decals: Residence hall students may obtain an overnight decal by presenting written authorization from the Housing Director's Office to the Business Office and paying the above noted applicable fee.

Physically disabled members of the College community: Medical verification of the disability (temporary or permanent) must be presented to the Office of the Dean of Students. Upon verification of need by said office an appropriate decal or temporary permit will be issued by the Office of the Director of Security and Safety. A vehicle with a disability decal or permit may park in any of the parking lots (time limits limited time areas must be observed). Regular fees are applicable.

2. Summons

Municipal Summons: A municipal summons is returnable in the municipal court in the town stated on the summons (Little Falls or Montclair). The stated fine may be mailed to the address noted on the summons. The municipal summons cannot be paid or appealed on campus.

Campus Summons: A campus summons must be paid at the College Business Office. A campus summons may be appealed at the Office of the Council on Community Affairs. The campus summons must be paid or appealed within ten days of issuance. Failure to do so may result in the withholding of grades and/or transcripts.

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselors have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems such as test anxiety, sexual difficulties and overeating.

Psycho-Educational Center

The Center has been designed to train graduate and selected undergraduate students

the areas of school psychology, learning disabilities, reading, speech, audiology, student personnel services, teachers of the socially and emotionally disturbed; undergraduate areas of music and art therapies and industrial education, in the diagnosis of remediation of people with learning, language and speech problems. It additionally serves the community by offering programs that suit the mutual needs of students and clients.

Religious Facilities and Programs

The Newman House, 894 Valley Road, is associated with the Catholic Church but is open to students of all religions. A lounge and library are available for students and faculty and a liturgy is celebrated daily.

The Jewish Student Union is located on the first floor of Life Hall. The Montclair Protestant Foundation is located in the Student Center. These groups sponsor and often co-sponsor events of an artistic, intellectual, social or theological nature. The chaplains share an office in the Student Center and are available for counseling.

Remediation Programs

Mathematics—Learning Resource Center

The Learning Resource Center provides remedial assistance to students in the area of mathematics. It is directed and supervised by graduate assistants. Contact the mathematics department for specific hours.

College Reading Improvement Program

The College Reading Improvement Program gives students an opportunity to improve their ability to process college-level information. This involves instruction in both "reading" skills (comprehension, vocabulary, rate) and "study" skills (concentration, retention, notetaking, test-taking, etc.). The program, part of the Reading and Study Skills Center, provides testing services; a one-credit, pass-fail course in reading-study skills; and help with specific problems on a drop-in basis. Faculty members may refer students directly to College Hall, room 105.

Writing Workshop

The main purpose of the Writing Workshop is to improve the student's writing skills through remedial writing and research papers. Students attend twice a week for the entire semester for tutorial assistance. The workshop is supervised by an English faculty member, graduate assistants and adjuncts from the English department. Students may earn three credits upon successfully completing the sessions. The workshop is also a drop-in center for those having difficulty in writing research papers. It is open Monday through Thursday 9 a.m. to 7 p.m. and on Friday 9 a.m. to 4 p.m. and is located on the second floor of Life Hall.

U.S. Army ROTC

The Army Reserve Officer Training Corps (ROTC) Program offers individual courses in military science in a curriculum designed to qualify students for commissions as officers in the Regular Army or Army Reserves. ROTC is available to full-time college students without regard to academic discipline. Students interested in obtaining U.S. Army commissions through ROTC must meet basic age, physical, academic and citizenship standards.

Classes meet at the Seton Hall University campus in South Orange, usually on a once-weekly basis. Scholarships are available on a competitive basis and all ROTC students receive tuition assistance and allowances amounting to \$2500 in the advanced phase of the program.

Specific questions on eligibility and courses should be directed to the Seton Hall Military Science Department at 763-3078.

Air Force ROTC

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for The General Military, Professional Officer courses and Aerospace Studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program, contact the Office of the Vice President for Academic Affairs.

Student Center

The Student Center houses the College Supply Store, Pilgrim State Bank, a mechanical games room, the Candy Store and the Rathskeller on its lower level; and a cafeteria/snack bar, multi-purpose and formal dining room on the main level. The entire third floor is mezzanine lounge. Student organizations and the Student Center administrators have office on the fourth floor.

Student Personnel Services

The Student Personnel Office provides guidance in financial aid, part-time employment, housing, veterans' affairs, health, emotional adjustment, leadership training and social adjustment, as well as personal counseling of a general nature.



Student Affairs and Activities

The basic philosophy of the Office of Student Activities is to create opportunities for favorable social development.

The following groups represent the formal structure supporting that philosophy.

Student Government Association, Inc.

The Student Government Association, a one million dollar corporation, is composed of all undergraduate students. Full-time students pay a \$48.00 fee; part-time students pay a fee of \$2.00 per credit hour up to 11 credit hours or \$24.00 for 12 credit hours or more per semester. The SGA provides day care facilities, free legal aid, a drop-in center, pharmacy program and many other services.

The legislative branch is composed of representatives from each class and major curriculum. The executive branch consists of the president, vice-president, treasurer and secretary.

College Life Union Board

The College Life Union Board is a Class I organization of the Student Government Association responsible for coordinating all social, cultural, educational and recreational student programs.

All students are members of C.L.U.B. and are invited to join C.L.U.B. committees: Cinema, Contemporary, Entertainment, Holiday Adventures, Historian, Catacombs, and Travel and Leisure. Other annual C.L.U.B. events include: Spring and Winter Balls, Carnival and Spring Day.

Council on International and National Affairs

C.I.N.A. examines national and international events and issues of vital concern to American life and culture. This is accomplished by lectures, seminars, films, trips and programs for UNICEF. This club is open to all students.

Black Student Cooperative Union

The Black Student Cooperative Union is an organization comprised mainly of black students. The members of B.S.C.U. are dedicated and willing to help others learn more about the culture of black people and in helping black men and women develop pride and awareness in themselves, in their communities, and to continue to strive for success in life.

Human Relations Lab

The Human Relations Lab is dedicated to serving Montclair State students with training sessions in group dynamics and psychological development. An H.R.L. weekend is held twice a year at minimal cost at local camp sites. H.R.L. also holds on-campus seminars and group interaction during the fall and spring semesters.

La Campana

The College yearbook, La Campana, serves as a yearly reflection of the campus community and its wide variety of interests and activities.

Latin American Student Organization

This organization exposes the College community to a better understanding and knowledge of Latin-American culture, music, art, and literature. Activities include Latin Week, A Night in the Caribbean, dances and trips.

Montclarion

The Montclarion is the weekly student newspaper of Montclair State College. The aim of the paper is to keep the campus informed of campus, off-campus, local events, and news of other colleges. Students gain journalistic experience in the areas of news, feature and sport writings, copy reading, layout, headlines, typing, photography, circulation and advertising. All undergraduates are eligible for staff positions.

Music and Arts Organization Commission

M.A.O.C. is that division of the Student Government Association which attempts to broaden and enrich the student's life in the area of music and dance.

It brings to the campus a variety of artists and performing groups which represent music from the Baroque period to the 20th century, from electronic music to jazz. Lecture workshops and master classes in areas such as composing, performing and listening are also presented.

M.A.O.C. also sponsors the Dance Club, which presents workshops, master classes at concerts to the students at MSC Membership is open to all interested students.

Players

Players is a student theatre organization with every aspect of production supervised by students. Players sponsor theatre trips to New York City and the on-campus presentation of guest artists.

Quarterly

Quarterly is the magazine of literature and art of Montclair State College. Submissions of original literature and art are sought for publication and all undergraduates are invited to join the staff. Quarterly offers an opportunity to express your individuality and to share with us.

Student Intramural and Leisure Council

S.I.L.C. has the unique distinction of being one of the country's few student controlled intramural programs. The day-to-day programming offered by S.I.L.C. includes leagues for men and women in football, basketball, softball, volleyball, tennis and bowling. It also sponsors badminton, water polo and pinochle, as well as special events which include a night of roller skating. S.I.L.C. publishes a newsletter throughout the year.

WMSC—90.3 FM

WMSC is the student owned and operated radio station of Montclair State College. Broadcasting to northeastern New Jersey from 12:00 noon to 1:00 a.m., seven days a week, it specializes in educational news, feature stories, music and entertainment. Any undergraduate student may become a member of WMSC 90.3 FM.

School of Education and Community Services

Ercell I. Watson, Ed.D., Dean

Theresa A. Bowman, M.A., Administrative Assistant

Marcella West, M.A., Academic Counselor

The School of Education and Community Services provides professional educational services to the communities of the nation and particularly to those of northern New Jersey. These services are directed to: individuals seeking admission to the teaching profession; preparation for specialization in education and growth within the profession; public and non-public schools; community agencies; business and industrial organizations. The School is also concerned with the continuing development of the general field of education and with related problems of society.

The role of the School is threefold:

1. to offer these services in an accessible and useful manner;
2. to use the training, experience and expertise of the staff to the best advantage in the performance of services; and
3. to coordinate mutual efforts with other agencies of the College and the community.

These objectives are accomplished through instruction, consultation, supervised laboratory experiences and research.

The primary purpose at the undergraduate level is to provide students with the basic professional experiences and learning essential to successful teaching. Professional courses are so designed that students receiving credit for all the required courses in education and psychology, plus a methods course in their major field, meet the requirements for certification in professional education. Students may exceed the minimum educational electives in areas of education which interest them.

The School assists students by:

1. helping the prospective teacher take an intelligent and active part in his/her own personal and professional orientation;
2. arousing awareness of the teaching profession as an opportunity to apply interests and powers to the social good;
3. providing for a gradual induction into the profession through a carefully arranged sequence of education courses, participation as teacher aides in actual high school classes and student teaching;
4. offering opportunity for the student to be active in the extracurricular life of the school and in community affairs;
5. giving a forward look into the profession as a worthy life-time vocation.

In addition to regular programs, the School designs and implements new approaches to the educational needs of urban/minority/disadvantaged student populations. It has reached out to solve human problems through programs in nearby prisons, public schools, store fronts, street-based schools, community action programs, high school and college level examination equivalency programs and career ladder programs.

Montclair Education Review

Editor In Chief: Dr. Nicholas Michelli

Associate Editor: Dr. Robert B. Williams

The Montclair Education Review is a communications organ articulating the problems and concerns of educators throughout northern New Jersey. Sponsored by the School of Education and Community Services, the Review directs its attention to superintendents, principals, teachers and other educators operating within the educational structure. The publication is issued at intervals during the academic year.

Manuscripts will be reviewed, providing they are typed double-spaced, no more than five pages length and properly documented. They should be sent to: The Editor, Montclair Education Review, Montclair State College, Upper Montclair, New Jersey 07043.

Student Teaching and Educational Placement

Through the Office of Student Teaching and Educational Placement, assistance is provided to eligible candidates in securing positions in fields related to education including positions as classroom

teachers, administrators, counselors and special education consultants. Services include notification of candidates of positions, preparation and distribution of supporting credentials, arrangements for on and off-campus job interviews and career counseling. Services are provided gratis.

Department of Adult Continuing Education

Associate Professor: Raymond Ast, Chairman

The Department of Adult Continuing Education provides selective and distinctive program services to students, volunteer and para-professional groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey, the nation and the world. In addition to leadership training for adult educators, the department's program offers direct services to: community education development efforts; adult basic education and high school equivalency programs; manpower training development efforts; competency-based staff development for adult educators in New Jersey; resource services to practitioners in community programs for older adults; residential institutes for retired persons as well as a program of liberal studies for retired professionals. The department also provides services and training programs for industry and institutional employee career mobility, as well as continuing education unit technical assistance services to community agencies and institutions. Montclair State College's GED and CLEP testing center is administered within the Department of Adult Continuing Education.

In addition, the department is the center for an information network throughout the United States and the world through its National Multimedia Center for Adult Education and its National Adult Education Clearinghouse. These components have been recognized by UNESCO as a member unit of the Worldwide Information and Documentation Centers for Adult Education.

The department, working closely with the Educational Leadership Department of the School of Education and Community Services and with other Schools of Montclair State College, as well as with selected colleges and universities of the Northeast Region Consortia, offers a concentration in advanced continuing and community education to the student seeking a master's degree.

Undergraduate level course offering:

A 0807 0459 Sem-Practicum-Adult Comm Educ

Course designed to develop awareness, skills and understanding in teaching of adults. Lectures, discussion, demonstration & practicum experience, course participant will be able to become more aware of developing new approaches to guiding learning experiences for the adult.

A 0807 0460 Curriculum and Instruction in Adult Education

This course is designed to increase undergraduate and graduate student professional competence of adult educator through the development of his/her knowledge, understanding, and application of theory, teaching techniques, and curriculum in the field of adult education.

Department of Curriculum and Teaching

Professor: Flagg

Associate Professors: Michelli (Chairman), Pines, Uhia

Assistant Professors: Barell, Becker, Boyce, Dispoto, Fages,

Venturini

The Department of Curriculum and Teaching has as its primary mission the professional education of public school teachers. In fulfilling this role, most undergraduate courses offered by the department are taught in the field in Professional Semester Centers. The department also offers programs at the graduate level for the professional growth of teachers in service.

Teacher Education

The teacher education program is an inter-school program involving courses in the student's school, the School of Education and Community Services, and other Schools of the College. Admission to the program normally occurs in the sophomore year, prerequisite courses are taken in freshman or sophomore years. Students are responsible for being familiar with program requirements and for meeting attendant deadlines. Failure to do so may require work beyond the normal four

program to complete requirements.

Graduates of state approved programs are legally qualified for certification in states party to the Interstate Certification Compact.

Professional Sequence for Teacher Education Certification (All Teacher Education Candidates)

Students cannot register for 0829 courses in the Professional Sequence until admitted to teacher education.

Students must allow three semesters, including the semester in which they are admitted, to complete the 0829 portion of the professional sequence.

Requirements

		Semester Hours
C 0821 0220	Philosophical Orientation to Education	3
7 2001 0200	Educational Psychology*	3
	Major Departmental Methods	3
B 0829 0410 or B 0829 0412	Field Experience in Education	1
B 0808 0407 and		
B 0808 0408	Developmental Reading I & II	6
B 0829 0400	Teacher, School, and Society	3
B 0829 0401	Senior Field Experience	1
B 0829 0402	Seminar in Professional Education	1
B 0829 0411	Supervised Student Teaching	8
	REQUIRED TOTAL	29

Prerequisite—7 2001 0101 Human Growth and Development may be taken as part of the GFR program.

Descriptions of Program Stages

I. Decision to Apply for Admission to Teacher Education and Completion of Prerequisite Courses—Freshman/Sophomore Years.

All prospective teacher education students are encouraged to undertake experiences and/or courses which will allow them to work with young people of the ages they are considering teaching, to get a better perspective of the profession. Faculty of the Department of Curriculum and Teaching and other faculty of the College are available to discuss students' plans and recommend such experiences and/or courses.

During this stage, students planning to apply for admission to teacher education must satisfy the speech proficiency requirement by passing a test or completing a speech course. Information regarding this requirement can be secured from the Department of Speech and Theater, major advisors, or faculty of the School of Education and Community Services.

Beginning with freshmen and transfer students entering in Fall 1977, C 0821 0220 Philosophical Orientation to Education must be taken prior to admission to teacher education. Students also must complete the course 7 2001 1001 General Psychology I: Growth and Development in the Department of Psychology as a prerequisite to 7 2001 0200 Educational Psychology. They should consult with their major department advisors to determine any additional requirements specific to their majors.

Sometime early in their programs, students must take a state-mandated course in the area of Human and Intercultural Relations from a limited list available from school counselors. This course may be credited toward general education electives and may meet the College Human Relations requirement as well.

Failure to have completed the prerequisites at the time of application for the teacher preparation program will delay acceptance into the program which could require an additional semester for the completion of the professional sequence prior to graduation.

II. Admission to Teacher Education—Sophomore Year

Coordinator of Teacher Admissions: Dr. Anne C. Castens

Admission to the College is not considered to be admission to the teacher education program. Students who wish to enter teacher education should make application prior to the close of the

sophomore year. If applications are made later, students may have difficulty in completing the professional sequence before graduation. Three semesters are generally required for completion of the remaining stages.

Criteria for admission to teacher education:

1. Three favorable recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Satisfactory completion of a speech test or recommendation by the speech department upon completion of a speech course.
3. Evidence of passing Psychology 7 2001 0101 General Psychology I: Growth and Development.
4. Cumulative average of at least 2.45 based on a 4.00 scale. In exceptional cases, an individual may be admitted provisionally, with a cumulative average of less than 2.45 with a statement from a faculty member from his/her major field who is willing to sponsor his/her admission, and if the Screening Committee approves. A cumulative average of 2.45 with no failing grades in the major or in the courses in the professional sequence is required for eligibility for student teaching.
5. Other requirements as indicated by the student's department.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a Screening Committee of three faculty members, with representation from the School of Education and Community Services and the student's major field.
8. Clearance by the Student Personnel Division.

When a student is notified of admission to the program, an advisor from the School of Education and Community Services will be assigned. Further information regarding the process of admission to teacher education can be secured from Dr. Anne C. Castens, Coordinator of Teacher Admissions.

III. Preparation and Registration for Student Teaching— Sophomore/Junior Year

During this period, students must complete the course 0829 0410 Field Experience in Education. This experience consists of thirty hours in a school at the level the student plans to teach, including work as a teacher's aide, observation of teaching, some instruction of students and other experiences as well as classes on campus. Information regarding this requirement is available from the School of Education and Community Services advisor assigned at the time of admission to teacher education.

Also during this period, students must take a six credit state-mandated reading sequence consisting of D 0808 0407 and D 0808 0408 Developmental Reading: Principles and Techniques I and II. In this stage, students must complete requirements for student teaching in their major schools including the methods course. Also, 7 2001 0200 Educational Psychology must be completed prior to the professional semester.

Soon after being formally accepted into the teacher education program, the student must register with the Office of Student Teaching and Educational Placement located in the College High building in order to be placed in a Professional Semester Center in the senior year.

Since it takes a good deal of time to place student teachers in centers within reasonable commuting distance, and since individual circumstances often enter into placement, it is extremely important that the Student Teaching Office be given enough lead time to secure assignments for each student.

It is suggested that eligible students register with the Office of Student Teaching in January of the academic year prior to the academic year in which they plan to participate in the professional semester. In any event, applications for a fall semester will not be accepted after June 1 of the previous academic year. Applications for a given spring semester will not be accepted after November 15.

Requirements for assignment to a Professional Semester Center and student teaching are as follows:

1. Admission to Teacher Education
2. Academic standing
 - a. Satisfactory completion of 6 semester hours in English and 6 semester hours in Social Studies of the general education requirements of the College.
 - b. Satisfactory completion of 7 2001 0200 Educational Psychology.
 - c. Acceptance by a major department and completion of at least 24 semester hours in a major
 - d. No grade of "Incomplete" or "F" in required courses.

- e. Satisfactory completion of the methods course in the major area.
- f. Satisfactory completion of the Junior Field Experience.
- 3. Clearance by the Student Personnel Division.

IV. The Professional Semester—Senior Year

The culminating experience in the teacher education program is the professional semester, devoted to final preparation and student teaching. For this experience the student is assigned to a Professional Semester Center, a public school which serves as an off-campus center for teacher education. The student teaching experience may take place in the Professional Semester Center school or in a nearby school.

While assigned to the Professional Semester Center, the student completes five credits of course work in addition to the eight credits granted for B 0829 0411 Supervised Student Teaching. A faculty member of the School of Education and Community Services is assigned to each Center.

During the first weeks of the professional semester, the student begins observing classes and preparing to assume the role of a teacher in the assigned school. At this time, the course B 0829 0400 Teacher, School and Society is completed. In this course, which is taught at the Professional Semester Center, the student is asked to examine the nature of education in America and the role of the teacher in the education process. As the student begins to assume a larger teaching role in the assigned school and becomes a professional member of the team with the cooperating public school teacher, the course B 0829 0402 Seminar in Professional Education begins. It provides a regular opportunity to meet with other student teachers and professional educators to discuss successes and difficulties encountered. Skill sessions which focus on specific common problems will be available as well. Cooperating public school teachers, administrators and supervisors from major departments will be asked to participate in these courses.

Throughout the semester, the student will be completing the course 0829 0401 Senior Field Experience, designed to give a better perception of the place of the assigned school in the community, the place of the assigned school within the total educational continuum, and the nature of the lives of students after school.

Additional information regarding the Professional Semester and other aspects of the teacher education program is available from assigned School of Education and Community Services advisors or members of the Department of Curriculum and Teaching.

Note: In accordance with the provisions of New Jersey Statute (N.J.S.A. 18A: 26-A) students must take an examination in physiology and hygiene. The student may have had undergraduate study in areas such as biology, personal health problems, community health, school health, family health, counseling, nutrition or health administration. If not, he/she can take such course in lieu of the examination. (The requirement does not apply in art, business education, foreign language, health education, industrial arts, library studies, music or physical education.) The examination can be taken at the Office of any County Superintendent of Schools.

Among the graduate and special programs offered by the department:

1. M.A.T. Program for Hispanics—A Master of Arts in Teaching program designed to assist Spanish-speaking teachers, with instruction in both Spanish and English.
2. Certification Program (Post Baccalaureate)—A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
3. Master of Arts in Teaching—Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on alternative education, are available.

The School of Education and Community Services maintains the Curriculum Resource Center in Chapin Hall. The center houses a collection of instructional materials and courses of study in all subject areas.

Curriculum and Teaching Course Descriptions

B 0829 0400 Teacher, School and Society

An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students. Not for graduate credit.

3 s.h.

B 0829 0401 Senior Field Experience

Part of the professional semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

1 s.h.

B 0829 0402 Seminar in Professional Education

Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.

1 s.h.

Prerequisite: B 0829 0410

B 0829 0410 Field Experience in Education

Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing working with individuals and small groups of students, helping with clubs and student activities. Teaching 'mini lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus. Pass/fail.

1-3 s.h.

Prerequisite: Admission to teacher preparation program. Obtain course application from the SECS teacher, admissions office prior to registering for course.

B 0829 0411 Supervised Student Teaching I

Student teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements not for graduate credit. Part of professional semester. No for graduate credit.

8 s.h.

B 0829 0412 Field Work in Urban Education

Similar to 0829 0410 with emphasis on tutoring and individual conferences in urban public schools. Student keeps a log of activities. Class meetings on campus. Pass/fail.

1-3 s.h.

Prerequisite: Admission to teacher preparation program. Obtain course application from the SECS teacher, admissions prior to registering for course.

B 0829 0413 Field Work in Community Agencies

Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/fail. Class meetings on campus during the experience are arranged.

1-3 s.h.

B 0829 0414 In-Service Supervised Teaching I

Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and College personnel. Student must have permission of department chairperson and the school district.

4 s.h.

Co-requisite: B 0829 0402.

B 0829 0415 In-Service Supervised Teaching II

Continuation of in-service supervised Teaching I. The co-requisite seminar is replaced by a series of special in-service conferences included in the course. Not for graduate credit.

4 s.h.

Prerequisite: B 0829 0414

B 0829 0420 Instructional Innovations

New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

3 s.h.

B 0829 0421 Seminar Problems of a Classroom Teacher

Reviewing, evaluating & relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths & weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after experiences.

1-3 s.h.

Prerequisite: Permission of Department

B 0829 0423 Teaching in Urban Schools

Focuses on factors affecting teaching and learning in urban schools. Topics included are the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities.

3 s.h.

B 0829 0425 Curriculum & Instruction for Affective Education

Place of approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. The student will acquire (a) a familiarity with theory & practice of curricular design & instruction for affective education, (b) a facility in the application & evaluation thereof, & (c) a capacity for the development of original models. Micro-teaching, simulation, workshops & representative affect classroom procedures will be utilized extensively.

3 s.h.

Prerequisite: 7 2001 0200

B 0829 0430 Elementary School Curriculum

Characteristics of young learners, the source, nature & function of curriculum goals. Types of elementary school administrative organization. The relationship of curricular patterns and classroom procedures. Modern subject matter areas. Audio-visual aids, testing, and reporting to parents may be included. Field trips and simulation materials.

3 s.h.

B 0829 0431 Junior & Middle High School Curriculum

Current movements in the programs of intermediate schools. Representative practices and the rationale of the junior high school. Innovations in middle schools developing courses of study or units of work.

3 s.h.

Educational Foundations

Professors: Bredemier, Haas (Chairman), Cordasco

Associate Professor: Bernstein

Assistant Professors: Danzig, Sharp

The Department of Educational Foundations has the dual responsibility of servicing and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new innovative programs. In keeping with these professional responsibilities, the department offers undergraduate and graduate foundations courses for the preparation of public school educators and, at the same time, tries to satisfy specialized demands beyond the limits of the public schools through alternative graduate programs and undergraduate electives. The department offers an MAT in Alternate and Community Education which permits qualified college graduates teaching in non-public school situations to earn a secondary school teaching certificate while matriculating for a master's degree.

Educational Foundations Course Descriptions

C 0308 0400 Field Experience in Latin American Area Studies

The field experience permits students participating in the Latin American Area Studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.

Prerequisite: C 0308 0300

C 0821 0220 Philosophical Orientation to Education

An initiation to professional educational challenges and responsibilities in light of philosophic forces related to American educational goals and practices.

3 s.h.

C 0821 0264 Sexism in American Education

Designed to analyze sexism in the American schools. Its scope & effects. Emphasis on sex role stereotype in teacher behavior, peer behavior, curriculum and textbook content.

3 s.h.

C 0821 0420 Philosophic Foundations in Education

A study of philosophic forces of Western Civilization which have had an impact on American cultural values as they relate to professional education goals and practices.

3 s.h.

C 0821 0440 Sociological Foundations of Education

Teaching and learning in context of other social factors. Social & cultural influences on teachers & learners

and their transactions. The relationship of culture, role and personality. The school as a changing social system. 3 s.h.

C 0821 0441 Urban Politics and Education

The politics of confrontation. The school system as a political institution. Force fields and their influence upon the teacher, school & community. Political orientations and experiences of various ethnic groups. The influence of political pressures on urban schools from city or higher levels. 3 s.h.

C 0821 0445 Puerto Rican Children in Mainland Schools

Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration. The Puerto Rican family. Puerto Rican life-styles, cultural identity, cultural pluralism Learning needs and evolving programs. Includes visits to schools. 3 s.h.

C 0821 0460 Comparative Education

The meaning of comparative education. Differences between educational systems in developed and developing societies. Developed areas such as Western and Central Europe. Developing areas such as Latin America and Tropical Africa. 3 s.h.

C 0821 0463 Women & Education in Modern Western Society

The role & education of women in particular types of societies are considered. Attention given to the U.S., France, & Latin America. At all times an effort is made to relate the educational situation of women to their social conditions. Gives attention to the education of working class, bourgeois, and aristocratic women. 3 s.h.

Department of Educational Leadership

Professors: Castens (Chairman), Bellagamba, Heiss, Lang, Merlo, Watson, Weischadle

Associate Professors: Brunner, Cuff, Oxman, Rust, Schantz

Assistant Professor: Dutka

Instructor: Stone

The Department of Educational Leadership comprises four educational specialties team. Administration and Supervision; Educational Research and Evaluation; Reading; and Technology Education. The programs provide solid scholastic foundations in the multi-faceted purposes education in a democratic society. Course work and field experience in schools and/or other community agencies make up each individual program. The graduate programs in this department prepare students for positions as:

1. major administrative or supervisory personnel at all levels of educational systems;
2. educational consultants;
3. educational researchers;
4. educational managers and planners in the media fields;
5. managers of emerging educational programs in business and government.

Administration and Supervision Team

Team Leader: Dr. Anne C. Castens

The Team of Administration and Supervision working with other departments of the College at the School of Education and Community Services prepares educational leaders. Its programs are limited to graduate study leading to the M.A. in Administration and/or Supervision and to post-M.A. studies. Although programs are directed toward certification as supervisor, principal, school administrator, business administrator, a comprehensive study of the field of educational leadership is encouraged.

Courses in certification programs are open to those holding the M.A. degree in a subject area and desiring certification as supervisors either in that subject area or in other supervisory or administrative positions. (See Graduate Catalog for Administration and Supervision course descriptions.)

Educational Research and Evaluation Team

Team Leader: Dr. Gerhard Lang

This program:

1. trains educational research and evaluation specialists needed by preschool centers, school systems, colleges and universities, research and development centers, regional educational laboratories, industry, private research agencies and the city, state and federal research bureaus;
2. broadens the professional education of students enrolled in various degree programs by offering courses designed to make them literate initiators and users of educational research and evaluation studies.

Educational Research Course Descriptions

D 0824 0410 Assessment of Young Children Evaluation of Cognitive Progress

Principles and practices of assessing young children. Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Use of tests in understanding children's developmental patterns, in the diagnosis of learning difficulties, in the determination of readiness, and in the evaluation of remedial and other special programs will be studied. Course content and requirements will be geared to individual needs of students.

3 s.h.

D 0824 0491 Educational Tests and Measurements

Educational goal setting, evaluation and improving instruction, identifying and translating goals into behavioral objectives, constructing tests, standardized tests and other devices for measuring and evaluating achievement, intelligence, aptitudes and personal social relationships. Basic statistical measures organizing and interpreting test data marking and reporting pupil progress. Each student will construct a test in his/her field of interest. Immediate applicability to thorough and efficient program.

3 s.h.

Reading Team

Team Leader: Dr. Maria Schantz

The Reading Program is concerned with the preparation of competent leadership for a variety of functions related to the needs of children, youths and adults. Wide demands exist for teachers, supervisors, consultants, and administrators capable of developing, implementing, maintaining and improving programs in developmental, corrective and remedial reading. The program provides students with backgrounds necessary for these specializations.

A Master of Arts degree with a Reading Specialization Certificate, a certification program for Reading Specialists, an undergraduate minor program, six semester hours D 0808 0407, Developmental Reading Part I, D 0808 0408, Developmental Reading Part II to meet the Teacher Education Certification Requirements, and a personal reading improvement course are available. A student enrolled as a reading minor gains field experience by working first as a reading aide in a public elementary school, next as a college tutor in the Reading and Study Skills Center, and finally as a "cadet-diagnostician" in the Diagnostic Clinic. The minor consists of 24 semester hours.

College students may take a personal reading improvement program for optional credit as a service through the Reading and Study Skills Center. Members of the community may obtain diagnostic and treatment services for schoolage children and for adults.

Reading Minor

The course sequence in Reading will be coordinated within the course sequence in the candidate's major program. A minimum of 24 credits will be required for the completion of the minor.

The minor program consists of the courses listed below. Education 0400 is a prerequisite to the remaining reading courses:

Requirements

D 0808 0400 Foundations of Reading Instruction*	Semester Hours
.....	3

Prerequisite for all Reading Courses.

D 0808 0402	Survey of Reading Methods in Secondary School Subjects	3
D 0808 0403	Practicum in Reading and the Improvements of Study Skills	3
D 0808 0404	Diagnosis and Treatment of Reading Problems	3
7 2001 0320	Psychology and Education of the Handicapped (Department prerequisite)	3

Nine credits must be selected with the advisor's approval from the following:

1 1506 0465	Introduction to Phonetics	3
2 1220 0209	Voice and Articulation Disorders	3
7 2001 0335	Social Psychology	3
D 0824 0491	Measurement and Evaluation in Teaching and Learning	3
D 0808 0301	Tutoring and Small Group Instruction	2 or 3
N 1508 0403	Methods and Materials of Teaching English as a Second Language	3
D 0841 0400	Selection and Utilization of Educational Media	3
D 0841 0440	Television in Education Workshop: Programming and Production	3
E 1601 0403	Reading Materials for Children and Youth	4
X 1301 0319	Language and Literature for Young Children	3
I 1007 0360	Creative Dramatics	3

REQUIRED TOTAL 24

For any information regarding the minor, contact the Reading and Study Center, College Hall Room 105, or call 893-4247.

Another component of this department is the Curriculum Resource Center. It is a library facility which has printed materials on the three specializations described above.

Reading Course Descriptions

D 0808 0301 Tutoring and Small Group Instruction

This course is designed to provide tutors, teacher aides and other differentiated personnel with the necessary background of knowledge, skills and understanding to enable them to serve in educational environments in schools, hospitals, prisons, neighborhood youth corps, Community Action Programs etc. Students enrolled in this course will learn how they can increase the academic performance of the learner, how they can supplement rather than subvert what the instructor in the formal education environment is to do. (Open to undergraduates, volunteers, and personnel from community action programs).

2, 3, or 4 s.h.

Prerequisites: This course may be taken on an elective or as part of the reading minor.

D 0808 0400 Foundations of Reading Instruction

Good first teaching of reading is of primary importance to the sequential development of reading skill which extend into the junior and senior high school. In this course methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers who are faced with the problem of continuing reading skill development in all curriculum areas. Tutoring experience in nearby elementary schools is required.

3 s.h.

D 0808 0402 Survey of Reading Methods in Secondary Subjects

The role of good reading in academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

3 s.h.

D 0808 0403 Practicum in Reading and the Improvement of Study Skills

Recent materials and research; developing practical methods for teaching and learning; the SQ3 approach; taking examinations; reading and problem-solving; memory and concentration; taking an

organizing reading notes and the reading of homework assignments. Students tutor collegians in these areas. 3 s.h.

D 0808 0404 Diagnosis and Treatment of Reading Problems

Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology. An on-going student diagnosis of a school-age child is required. 3 s.h.

D 0808 0405 College Reading Improvement

Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content. Students may volunteer or be recommended by a faculty member. 2 s.h.

D 0808 0407 Developmental Reading Principles and Techniques Part I

This course was designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process. In specific word recognition and comprehension strategies, and in classroom diagnostic techniques. 3 s.h.

D 0808 0408 Developmental Reading Principles & Techniques Part II

This course was designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies. Prerequisite: D 0808 0407 3 s.h.

Media and Technology in Education

Team Leader: Dr. Grosvenor Rust

The courses offered here provide for two significant goals in the utilization of informational media:

1. The certification of persons responsible for administration and development of media in the curriculum of a single school;
2. competent utilization of media in the learning process.

Courses taken are elected at will by the student and may constitute a minor equivalency by special arrangement.

Students desiring certification as an Associate Educational Media Specialist must follow the State of New Jersey approved program of study as shown herein. Any variations from this sequence must be submitted to the team leader and official advisor for approval.

The department also offers graduate students the opportunity to prepare for administrative and upervisory roles in educational media at the community and district levels. A program of approved graduate courses leading to certification as an Educational Media Specialist is shown in the Montclair State College Graduate Catalog.

For further information about courses and programs call or write: Media and Technology in education, Dr. Grosvenor Rust, College Hall, Room 118, Phone 893-4239; Ms. Elsie Gibson, Library, 93-4191.

Associate Media Certificate

1. A bachelor's degree from an accredited college.
2. A standard New Jersey teacher's certificate.

Satisfactory completion of not fewer than 21 semester hours of work as follows (in exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor):

1. Prerequisites:

To be determined by departmental advisement in reference to any deficiencies made apparent by N.J. Standards for Performance of educational media services for public schools under the supervision of a qualified supervisor.

Semester Hours

2.	Specialization in Media and Technology	21
D 0841 0400	Selection and Utilization of Educational Media	3
E 1601 0401	Fundamentals of Cataloging and Classifying Educational Resources	3
E 1601 0402	Reference and Bibliography for School Resource Centers	3
E 1601 0403	Reading Materials for Children and Youth	3
E 1601 0404	Organization and Administration of a School Media Center	3
D 0841 0420	Teaching Materials Workshop	3
D 0841 0445	Audio Production in Education	3
Electives		
D 0841 0430	Television Services in a Single School Media Program (may be substituted for 0841 0445 above)	3

Field experience is required.* A normal field experience represents 50 hours of supervised media center service. (It is usually connected with the practice teaching component of the major certification field.)

NOTE: Special advisement for certain courses from the graduate level media program will be made for those having a bachelor's degree when they enroll in the above program.

*Field experience may be waived if candidate already holds a media-librarian position, or has had important general responsibilities in a school media center, and duties and competence in all media are certified by the employing superintendent, with the approval of the advisor.

Media and Technology Course Descriptions

Petition for Graduate Credit
must be made when applicable,
subject to established limits.

D 0841 0400 Selection and Utilization of Educational Media

Sources, selection, and evaluation of audio-visual aids are studied in this course. Techniques developing individual reference catalogs of audio-visual aids are stressed. The production of school made aids is also an important aspect of the course. The use of the latest audio-visual equipment demonstrated.

3 s.

D 0841 0401 Fundamentals of Cataloging and Classifying Educational Resources

Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Extensive practice through laboratory experience provided.

3 s.

D 0841 0402 Reference and Bibliography for School Resource Centers

An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedia, dictionaries, geographical and statistical sources as well as bibliographies are included.

3 s.

D 0841 0403 Reading Materials for Children & Youth Selection & Evaluation

A study and evaluation of library materials provided by the Modern School Media Center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

4 s.

D 0841 0404 Organization and Administration of a School Media Center

Practical experience in setting up effective library routines is stressed. These routines include budgeting, locating sources for materials, purchasing materials, book processing, preparing reports and statistics, taking inventory, planning and adapting rooms and equipment, and evaluating collections and services.

3 s.

D 0841 0420 Teaching Materials Workshop

This course is for those persons who wish to study advance problems in the utilization and administration of audio-visual materials. Individual research is stressed, and there is an opportunity to work out individual projects. Such problems as budget requirements, administrative set-up, establishment of film libraries, etc., are emphasized. It is assumed that the student will have taken Education 0408 or will have had the equivalent in practical experiences.

3 s.h.

D 0841 0430 Television Services in a Single School Media Program

Offered for the development of competency with simple television equipment. Proficient instructional utilization is emphasized in extensive laboratory instruction.

3 s.h.

D 0841 0445 Audio Technology in Education

The course develops skill in producing audio materials for learning laboratories, film sound, and a variety of synchronized image-sound presentation techniques. Proficiency in the design of audio materials is emphasized. Competency with duplicating, pulsing, recording and synchronizing devices is required.

3 s.h.

Department of Counseling, Human Services and Guidance

Professors: Gelfond, Gorman, Gregg, Grey (Chairman), King, G., Williams

Associate Professors: Hamel, Talley

Assistant Professors: King, A., Millard

Instructor: Mills, Tetens

The department offers a Master of Arts degree with opportunities to concentrate in one of three separate fields:

. Guidance and Counseling

The traditional offerings of the department have been directed toward the preparation of school guidance counselors. Because certification in this area requires one year of teaching experience, this part of the program is usually considered in-service (while teaching). More and more students are enrolling directly from undergraduate schools with plans to enter the counseling field in higher education or non-school agencies where certification is not a requirement. Seniors may take, with permission, some of the offerings for undergraduate or graduate credit. (See the Graduate Catalog for course descriptions.)

Human Organizational Processes (HOP)

HOP is widely known to Montclair State students. It provides the student with ample opportunity to explore, early in undergraduate years, awareness and understanding of self especially in relation to others. The content prompts many students to evaluate HOP as "the most personally helpful courses we ever taken." The HOP specialization prepares students for a variety of career fields in counseling, personnel work, and group leadership (with additional professional training). (See the undergraduate course offerings listed below.)

School Social Worker

Formerly known as the "visiting teacher," the school social worker is a professionally prepared person whose basic responsibilities are helping client-students in the resolution of problems between the school and the outside environment including the home. The school social worker is a member of the child study team in most school districts and develops the out-of-school, background data on student to become the concern of the team. Certification as a school social worker requires either teaching social work experience in addition to specific courses. The Role of the School Social Worker is a course that undergraduates might want to consider for a closer look at this field.

Another component of this department is the Counseling, Human Services and Guidance Resource Center. It is a library facility which has printed materials on the three specializations described above.

Counseling, Human Services and Guidance Course Descriptions

F 0842 0327 Experiment in Coeducational Community Living

The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience.

3 s.h.

Prerequisite: Must be an upperclassman—must live in Clove Rd. Apts. designated for experiment

F 0842 0420 Achievement Motivation Development Project

(For entering E.O.F. Freshman) This course is designed to supply entering E.O.F. Freshmen with information about self and environment, about what achievement is (the need or drive) and to introduce them to achievement behavior. The project further attempts to stimulate achievement behavior on the part of the student participants in simulated experiences. Participants will be personally responsible.

2 s.h.

F 0842 0430 Interaction Analysis

The purpose of this course is to help participants become more objective in their observations and reporting of inter-actions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction: interpersonal, small group, and classroom.

3 s.l.

F 0842 0431 Individual Group Dynamics

This course is a seminar laboratory experience concerned with the areas of self understanding and effective human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others.

3 s.

F 0842 0432 Personal Values

This course is designed to help each participant undertake a personal exploration of his/her own values, what they are and how he/she got them, and then consider alternatives.

3 s.

Prerequisite: F 0842 0431, CRS in similar field

F 0826 0482 Career Consciousness

This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to define yourself and relate this information to the vocation you choose to pursue in life, to facilitate your successful exit from college into the real world. Each student will be required to look at him/herself through functional self analysis, write a resume, and investigate the job market in his/her particular field through field trips, job interviews, or readings in the field.

3 s.

Prerequisite: Majors only



School of Fine and Performing Arts

Donald Mintz, Ph.D., Dean
Laura Woodson-Hammond, M.A., Academic Advisor

The School of Fine and Performing Arts, designated a "center of influence in the fine and performing arts" by the Board of Higher Education, consists of the Departments of Fine Arts, Music, and Speech and Theater. Each offers preparation for careers in its disciplines and in public school teaching and public service and managerial professions associated with the arts. Since the School believes that the arts are an essential part of a full life, it offers a substantial number of non-technical courses open to all. Separately and together, the departments offer courses that recognize significant contemporary developments: the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency toward blurring of the boundaries between conventional artistic disciplines, and the serious challenges to traditional notions of what art is.

The School offers several types of degrees. The Bachelor of Fine Arts, available in acting/directing, technical theater, dance, and fine arts, is a preprofessional degree calling for intensive and extensive work in the major field. The Bachelor of Music is likewise preprofessional. The Bachelor of Arts degrees are varied. Some, like those leading to certification to teach or registry in music therapy, are essentially professional. Others offer rather broad surveys of their fields and the opportunity for students to take a substantial number of electives throughout the college. Finally, each department offers a rigorous B.A. program emphasizing the history and criticism of its discipline and requiring substantial work in related humanistic areas.

Departmental programs take account of the demands of their disciplines and seek to insure that graduates will be technically competent in their chosen fields. Nevertheless, many concentrations and course sequences are flexible.

The School's facilities include two modern theaters, a recital hall, two music rehearsal halls, a theater-arts workshop, television and audio facilities and numerous practice rooms and studios.

Although Montclair State is close to New York City and students are able to take advantage of the city's unrivaled cultural and artistic resources, the School, through the Office of Cultural Programming, and the departments have substantial and growing programs and plans for bringing many of these resources to the campus.

Since disciplinary needs and departmental preferences vary, students should consult first with the Academic Advisor and then with a member of the faculty of the department in which they will major before registering for general education courses. The rate at which these requirements can be satisfied depends upon the demands of each discipline. Details may be found in the departmental listings.

Students who plan to teach in the public schools must meet requirements set by the State Board of Examiners for teacher certification and by their major department.

The School believes that interdisciplinary studies are best undertaken from a firm foundation in a traditional area. Students interested in such studies are therefore required to complete a B.A. concentration in one of the departments of the School. To this they add a coherent group of courses in the other area or areas in which they are interested. In some cases, such a group may be an established minor like those in computer science or archeology. In other cases, the group may consist of the core courses of a broad discipline, for example, the general business core. On some occasions, students may wish to design their own work consultation with a faculty member and the academic advisor.

Students interested in interdisciplinary studies should consult the academic advisor as early in their freshman year as possible.

Department of Fine Arts

Professors: Kampf, Martens, McCreath (Chairman)

Associate Professors: Barnet, Chapman, de Leeuw, Mohammed, Ross,
Scholossman

Assistant Professors: Barris, Czernowicz, Kahn, Kirschbaum, Kyle, Lay
Lederman, Schnitzer, Silver, Siporin, Swales, Westfall

Instructors: Carter, Cicero, Glashausser, Goldring, Walsh

The Department of Fine Arts undergraduate studies offers a B.F.A. and a B.A. degree. The B.F.A. Concentrations are: ceramics; drawing; fabrics; film making; graphic design; jewelry; multi-media painting; photography; printmaking; sculpture. The B.A. Programs are: art history; fine arts education; studies in visual arts; studio.

All student applicants except for art history will be accepted to the Fine Arts Department by portfolio review. At the end of the studio "Basic Core Program" majors will have a sophomore portfolio examination prior to being accepted in the program of their choice.

The following basic core is required for B.F.A., B.A. in Studio and B.A. in Studies in the Visual Arts:

I. Requirements

	Semester Hours
G 1001 0101, 0102 Foundations of Visual Organization I, II
G 1003 0105, 0106 Art and Civilization I, II
G 1001 0220 Life Drawing I
G 1001 0107 Drawing I
G 1001 0201 Color Studies I
G 1003 0451 Contemporary Art
	REQUIRED TOTAL

II. Degrees

A. Bachelor of Fine Arts:

A preprofessional program for students who seek preparation as artists.

Requirements

	Semester Hours

G 1002 0215 Art History Electives
G 1003 0462 Art Forum
G 1091 0482 Senior Seminar
G 1091 0489 Exhibition Workshop
Major Studio
Elected Studios
	REQUIRED TOTAL

B. Bachelor of Arts in Studio:

A liberal arts program for students who want a studio concentration.

Requirements

Studio of choice and related areas .....	.....
	REQUIRED TOTAL

C. Bachelor of Arts in Studies in the Visual Arts:

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Requirements

	Semester Hours
G 1003 0463 Resources and Methods of Research in the Arts
G 1003 0456 Modern Philosophies of Art
One Studio Course
3 courses from the following:
G 1010 0400 History of the Cinema as Art

G 1090 0303	History of Textiles	3
G 1011 0484	History of Photography	3
G 4921 0464	History of the Print	3
G 4922 0478	Art in Public Places	3
G 4922 0340	Selected Problems in Urban Cultural Development	3
G 4922 0231	Social Bases of the Arts	3
G 2208 0341	History of City Form	3
G 2208 0307	The City and the Arts	3
G 2208 0332	Sociology of Popular Arts	3
G 1003 0326	The Critical Approach	3
G 1003 0451	Contemporary Art	3
	REQUIRED TOTAL	42

D. Bachelor of Arts in Fine Arts Education

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Requirements

	Semester Hours
G 1001 0101, 0102 Foundations of Visual Organization I, II	6
G 1003 0105, 0106 Art and Civilization I, II	6
G 1003 0451 Contemporary Art	3
G 1001 0201 Color Studies I	3
G 1001 0107 Drawing I or G 1001 0220	3
G 1001 0301, 0302, 0304 Critique of Portfolio I, II, III	0
(critique is required of candidates during freshman and sophomore years)	21

Requirements (Studio)

	Semester Hours
G 1001 0209 Theater Arts	3
G 1001 0212 Communications Design I	3
G 1002 0200 Painting I	3
G 1002 0211 Sculpture I	3
G 4921 0120 Introduction to Printmaking	3
G 1090 0204 Fibers and Fabrics I	3
G 1090 0218 Metalwork and Jewelry I	3
G 1090 0202 Ceramics, Pottery and Sculpture I	3
G 1011 0213 Introduction to Photography: A Contemporary Art Form	3
	27

II. Electives

REQUIRED TOTAL	50
----------------	----

Art Education students must complete the professional sequence of 23 s.h. This includes the required G 1001 0300 Foundations of Methods and Curriculum in Art Education K-12 (3 s.h.).

E. Bachelor of Arts in Art History:

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Requirements

	Semester Hours
G 1001 0101, 0102 Foundations of Visual Organization I, II	6
G 1003 0105, 0106 Art and Civilization I, II	6
G 1003 0462 Senior Seminar	3
G 1003 0463 Resources and Methods of Research in the Arts	3
	18

Electives

	Semester Hours
The Ancient Art History Course	3
The Medieval Art History Course	3
The Renaissance Art History Course	3

One Baroque Art History Course	3
A 19th or 20th Century Art History Course	3
Art History Elective	3
	18
III. Museum Practice, Externship	6
IV. Collateral Requirements	
M 1103 0123, 0134 Intermediate German I, II	6
L 1102 0101, 0111 Beginning French I, II	6
O 1509 0202 Logic	3
O 1509 0206 Contemporary Aesthetics	3
O 1510 0215 or 0216 Old Testament	3
O 1510 0220 or 0221 New Testament	3
J 4039 0285 Classical Mythology	3
Theater History Electives	3
Electives	7
	REQUIRED TOTAL
	82

Interdepartmental and Interdisciplinary Studies

The School believes that interdisciplinary studies are best undertaken from a firm foundation in a traditional area. Students interested in such studies are therefore required to complete a B.A concentration in one of the departments of the School. To this they add a coherent group of courses in the other area or areas in which they are interested. In some cases, such a group may be an established minor like those in computer science or archeology. In other cases, the group may consist of the core courses of a broad discipline, for example, the general business core. On some occasions students may wish to design their own work in consultation with a faculty member and the academic advisor.

Students interested in interdisciplinary studies should consult the academic advisor as early in their freshman year as possible.

Fine Arts Course Descriptions

G 0831 0200 Creative Use of Media for Art Education

The development of creative effects through the use of audio-visual equipment by the exploration of ways and means suitable to the visual arts area. Art films, slides, two and three-dimensional materials, light and sound techniques. 3 s.h.

G 0831 0300 Foundations of Methods and Curriculum in Art Education K-12

Behavioral and visual development of the child in plastic and graphic media materials, facilities and equipment and their sources. Organization and presentation of art experiences curriculum, construction based on art as a visual response to life. For fine arts education majors must be taken simultaneously with Teacher School and Society in the spring of the junior year. 3 s.h.

Prerequisites: 7 2001 0101, 7 2001 0200 majors only

G 0831 0305 The Urban Art Teacher

The role of the art teacher in a public school setting, urban and inner-city. Environment, facilities, equipment, supplies and professional interaction 3 s.

G 0831 0310 Group Art Therapy and Creativity Development

Insight into self-behavior through student participation, a deepening appreciation of the creative process, understanding of self and the relationship between art and psychology. 3 s.

G 0831 0410 Introduction to Art Therapy and Creativity Development

Art media are used to create forms that express feeling-thinking patterns. Discussion aimed at recognizing how art forms reflect assumptions, attitudes and choices. A variety of modalities used in processing personal symbolism, fantasy and dreams. 3 s.

G 0831 0411 Light and Sound Forms for Use in Art Education

light and sound forms. Emphasis on the creative use of media for performance. Sources and competencies related to the K-12 art curriculum as a humanities resource, will be studied. 3 s.h.
Prerequisite: 0841 0400 Instructor's permission

G 1001 0100 Introduction to Visual Arts

The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, print making, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors. 3 s.h.

G 1001 0101 Foundations of Visual Organization I

Foundations of visual organization, structured to develop the visual and verbal vocabulary, through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line, color, plane, texture, form, shape and time as basic elements in all art forms. Two-and three-dimensional concepts introduced through a variety of materials and processes. Reading assignments, museum and gallery visits. Required of all art majors. 3 s.h.

G 1001 0102 Foundations of Visual Organization II

Continuation of 1001:0101. Required of all art majors 3 s.h.
Prerequisite: G 1001 0101

G 1001 0103 Visual Arts Studio I

The art forms (painting, sculpture, drawing, crafts) experienced through exploration of natural, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge. The part art experience can play in his life. For students with limited experience. Prerequisite: Instructor's permission 3 s.h.

G 1001 0104 Visual Arts Studio II

Continuation of 1001:0103 for students, with limited experience. 3 s.h.
Prerequisite: G1001 0103 Instructor's permission

G 1001 0107 Drawing I

Basic elements of line, point, shape, figure ground, and space relationships. 3 s.h.
Prerequisite: Instructor's permission

G 1001 0108 Drawing II

Continuation of 1001:0107 3 s.h.
Prerequisite: G 1001 0107 Instructor's permission

G 1001 0114 Sources; An Exploration of the Creative Process

A fundamental awareness which underlies all artistic endeavors (arts, music, drama, poetry, literature). Releasing the creative blocks and inhibitions through exercises and assignments to stimulate imagination and awaken the core creative self. 3 s.h.

G 001 0115 Technique-Increased Perception

A series of exercises designed to increase perception through intense observation. The resulting insights may be developed into a personal form of self expression. Emphasis is on the process of art rather than product. 3 s.h.

G 001 0201 Color Studies I

Color and its interaction through problems in color relatedness, systems and theories. Color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions, reading assignment, museum and gallery visits. 3 s.h.
Prerequisite: G1001 0101:0102 or Instructor's permission

G 001 0207 Drawing III

Continuation of 1001:0108 3 s.h.
Prerequisites: G 1001 0107, G 1001 0108, Instructor's permission

G 001 0208 Drawing IV

Continuation of 1001:0207 3 s.h.
Prerequisites: G 1001 0107, G 1001 0108, G 1001 0407 Instructor's permission

G 1001 0209 Theater Arts I

Visual art aspects of the theater with emphasis on techniques of group planning, scenery design and preparation, lighting, special effects, sound, slides, film, dance, puppets and marionettes. 3 s.

G 1001 0210 Theater Arts II

Continuation of G 1001 0209

Prerequisite: G 1001 0209 Instructor's permission

G 1001 0212 Communications Design I

The machines, tools, materials, techniques and methods of commercial art lettering, type layout, advertising design and illustration, layouts and paste-ups, reproduction techniques, poster making.

3 s.

G 1001 0220 Life Drawing I

The structure and proportions of the human form. Expressive drawing is emphasized.

3 s.

G 1001 0301 Color Studies II

Continuation of Color Studies I

Prerequisite: G 1001 0201

G 1001 0306 Theater Arts III

Continuation of G 1001:0210

Prerequisites: G 1001 0209, G 1001 0210 Instructor's permission

G 1001 0307 Theater Arts IV

Continuation of G 1001:0306

Prerequisites: G 1001 0209, G 1001 G 0210, G 1001 0306 Instructor's permission

G 1001 0313 Communication Design II

Continuation of G 1001:0212

Prerequisite: G 1001 0212

G 1001 0321 Life Drawing II

Continuation of 1001:0220

Prerequisite: G 1001 0220

G 1001 0339 Visual Arts Studio III

Continuation of 1001:0104 For students with limited experience.

Prerequisites: G 1001 0103, G 1001 0104 Instructor's permission

G 1001 0345 Multi-Media I

Group work to create a multi-media environment and to perform a multi-media mix; creation of theatrical, architectural, sculptural and technological props and the program for the mix; psychology of a total art experience.

Prerequisite: Instructor's permission

G 1001 0350 Independent Study

Topics for investigation selected with approval of the instructor. May be repeated for credit.

1-6

G 1001 0400 Independent Study in Foundations of Visual Organization I

Topics for investigation selected with the approval of the instructor.

Prerequisite: Instructor's permission

G 1001 0401 Independent Study in Foundations of Visual Organization II

Topics for investigation selected with the approval of the instructor. Hours to be arranged.

Prerequisite: G 1001 0400

G 1001 0402 Independent Study in Foundations of Visual Organization III

Topics for investigation selected with the approval of the instructor. Hours to be arranged.

Prerequisites: G 1001 0400, G 1001 0401

G 1001 0403 Independent Study in Foundations of Visual Organization IV

Topics for investigation selected with the approval of the instructor. Hours to be arranged.

Prerequisites: G 1001 0400, G 1001 0401, G 1001 0402

3 s.h.

G 1001 0404 Independent Study in Drawing I

Topics for investigation selected with the approval of the instructor.

Prerequisite: Instructor's permission

3 s.h.

G 1001 0405 Independent Study Drawing II

Topics for investigation selected with the approval of the instructor.

Prerequisite: G 1001 0404 Instructor's permission

3 s.h.

G 1001 0406 Independent Study Drawing III

Topics for investigation selected with approval of the instructor.

Prerequisites: G 1001 0404, G 1001 0405 Instructor's permission

3 s.h.

G 1001 0407 Independent Study in Drawing IV

Topics for investigation selected with the approval of the instructor.

Prerequisites: G 1001 0404, G 1001 0405, G 1001 0406 Instructor's permission

3 s.h.

G 1001 0420 Independent Study—Theater Arts

Topics for investigation selected with the approval of the instructor. Hours to be arranged.

Prerequisite: Instructor's permission

3 s.h.

G 1001 0441 Life Drawing III

Continuation of 1001:0321

3 s.h.

Prerequisites: G 1001 0220, G 1001 0321

G 1001 0442 Life Drawing IV

Continuation of 1001:0441

3 s.h.

Prerequisites: G 1001 0220, G 1001 0321, G 1001 0441

G 1001 0443 Independent Study Life Drawing I

Topics for investigation are selected with approval of the instructor.

Prerequisite: Instructor's permission

3 s.h.

G 1001 0444 Independent Study Life Drawing II

Topics for investigation are selected with approval of the instructor.

3 s.h.

Prerequisite: G 1001 0443 Instructor's permission

G 1001 0446 Multi-Media II

Continuation of 1001:0345

3 s.h.

Prerequisite: G 1001 0345

G 1001 0448 Critique in Art

Discussions of their work by students from various studio areas. Visiting artists will occasionally join. or fine arts majors of advanced standing.

1 s.h.

Prerequisite: Instructor's permission

G 1001 0465 Internship and Field Experience I

Involvement beyond the campus in a museum, art institution, or industry participation in inner-city art programs, or study with an independent artist, artist-craftsman. Approval by a supervising faculty member. Required total semester hours from internship & field experience courses combined 1001-465, 66, 467, 468) shall not exceed 8 hrs.

2-8 s.h.

Prerequisite: Instructor's permission

G 1001 0466 Internship and Field Experience II

Continuation of 1001:0465

2-8 s.h.

Prerequisite: G 1001 0465 Instructor's permission

G 1001 0467 Internship and Field Experience III

Continuation of 1001:0466

2-8 s.h.

Prerequisites: G 1001 0465, G 1001 0466 Instructor's permission

G 1001 0468 Externship & Field Experience IV.

Continuation of 1001:0468

Prerequisites: G 1001 0465, G 1001 0466, G 1001 0467 Instructor's permission

2-8 s.h.

G 1001 0486 Visual Arts Studio IV

Continuation of 1001:0339. For students with limited experience

Prerequisites: G 1001 0103, G 1001 0104, G 1001 0339

3 s.h.

G 1002 0200 Painting I

Exploration of Painting media and modes of expression. Reading, gallery and museum visits. 3 s.h.

G 1002 0201 Painting II

Continuation of 1002:0200

Prerequisite: G 1002 0200

3 s.h.

G 1002 0211 Sculpture I

Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits.

3 s.h.

G 1002 0212 Sculpture II

Continuation of 1002:0211

Prerequisite: G 1002 0211

3 s.h.

G 1002 0215 Art Forum

Talks and presentations by artists, critics, museum directors. May be repeated for credit. 2 s.h.

G 1002 0244 Sculpture—Modeling & Casting I

Forming by the additive process using one or more mold-making techniques, clay, plaster, cement and plastics. Further modeling and casting processes investigated according to the student's needs. Museum visits and reading assignments.

3 s.h.

G 1002 0245 Sculpture—Carving I

Sculpture formed by the subtractive process of carving in wood and/or stone primarily. Techniques of sharpening, making and maintaining tools. Museum visits and reading assignments

3 s.h.

G 1002 0246 Sculpture—Metal Casting I

Basic technology of metal casting in the lost wax process. Experimentation with the various materials related to the casting process. Modeling, spruing and venting, investment of the model, burn-out of the mold, pouring the metal, cleaning, chasing and finishing the metal cast. Museum visits and reading assignments.

3 s.h.

G 1002 0247 Sculpture—Fabrication I

Sculpture formed by constructive methods, form and space relationships. A professional sequence drawings, model building, testing of materials, joining methods, full-scale execution. Size of finished work will be not less than one cubic yard and not greater than the metropolitan area. Museum visits and reading assignments.

3 s.h.

G 1002 0248 Sculpture—Welding/Brazing I

Sculpture in metal realized through welding, brazing and soldering. Various metals used in a variety of processes to develop three-dimensional works. Museum visits and reading assignments.

3 s.h.

G 1002 0249 Sculpture Clay I

The use of clay to create sculptural forms. Emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired or unfired clay clay in combination with other materials.

3 s.h.

Prerequisite: Work in field.

G 1002 0254 Sculpture—Modeling Casting II

Continuation of 1002:0244

Prerequisite: G 1002 0244

3 s.h.

G 1002 0255 Sculpture—Carving II

Continuation of 1002:0245

Prerequisite: G 1002 0245

3 s.h.

G 1002 0256 Sculpture—Metal Casting II		
Continuation of 1002:0246		3 s.h.
Prerequisite: G 1002 0246		
G 1002 0257 Sculpture—Fabrication II		
Continuation of 1002:0247		3 s.h.
Prerequisite: G 1002 0247		
G 1002 0258 Sculpture—Welding/Brazing II		
Continuation of 1002:0248		3 s.h.
Prerequisite: G 1002 0248		
G 1002 0259 Sculpture Clay II		
Continuation of 1002:0249		3 s.h.
Prerequisite: G 1002 0249 work in field		
G 1002 0308 Sculpture III		
Continuation of 1002:0212		3 s.h.
Prerequisite: G 1002 0212		
G 1002 0309 Sculpture IV		
Continuation of 1002:0308		3 s.h.
Prerequisite: G 1002 0308		
G 1002 0316 Painting III		
Continuation of 1002:0201		3 s.h.
Prerequisite: G 1002 0201		
G 1002 0317 Painting IV		
Continuation of 1002:0316		3 s.h.
Prerequisite: G 1002 0316		
G 1002 0344 Sculpture—Modeling & Casting III		
Continuation of 1002:0254		3 s.h.
Prerequisite: G 1002 0254		
G 1002 0345 Sculpture—Carving III		
Continuation of 1002:0255		3 s.h.
Prerequisite: G 1002 0255		
G 1002 0346 Sculpture—Metal Casting III		
Continuation of 1002:0256		3 s.h.
Prerequisites: G 1002 0246, G 1002 0256		
G 1002 0347 Sculpture—Fabrication III		
Continuation of 1002:0257		3 s.h.
Prerequisite: G 1002 0257		
G 1002 0348 Sculpture—Welding/Brazing III		
Continuation of 1002:0258		3 s.h.
Prerequisite: G 1002 0258		
G 1002 0349 Sculpture Clay III		
Continuation of 1002:0259		3 s.h.
Prerequisite: G 1002 0259 work in field		
G 1002 0361 Figurative Painting		
Rendering the human figure and expressing creative insights into figurative painting.		3 s.h.
Prerequisite: G 1002 0200 Instructor's permission		
1002 0408 Independent Study Painting I		
Topics for investigation are selected with approval of instructor		3 s.h.
Prerequisite: Instructor's permission		

G 1002 0409 Independent Study Painting II

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0408 Instructor's permission

3 s.h.

G 1002 0410 Independent Study Painting III

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0409 Instructor's permission

3 s.h.

G 1002 0411 Independent Study Painting IV

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0410 Instructor's permission

3 s.h.

G 1002 0421 Independent Study—Sculpture I

Topics for investigation are selected with approval of instructor

3 s.h.

G 1002 0422 Independent Study—Sculpture II

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0421 Instructor's permission

3 s.h.

G 1002 0423 Independent Study—Sculpture III

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0422 Instructor's permission

3 s.h.

G 1002 0424 Independent Study—Sculpture IV

Topics for investigation are selected with approval of instructor.
Prerequisite: G 1002 0423 Instructor's permission

3 s.h.

G 1002 0447 Painting the Environment

Interpretation of landscape as a unique source of pictorial ideas, the history of landscape painting.
Prerequisite: Instructor's permission

3 s.h.

G 1002 0449 Art and Technology

Innovative techniques in design, painting and sculpture involving new media. Simple technology methods that can be readily employed in search of new forms.
Prerequisite: Instructor's permission

3 s.h.

G 1002 0488 Sculpture—Modeling & Casting IV

Continuation of 1002:0344
Prerequisite: G 1002 0344

3 s.h.

G 1002 0489 Sculpture—Clay IV

Continuation of 1002:0349
Prerequisite: G 1002 0349 work in field

3 s.h.

G 1002 0495 Sculpture—Carving IV

Continuation of 1002:0345
Prerequisite: G 1002 0255 G 1002 0345

3 s.h.

G 1002 0496 Sculpture—Metal Casting IV

Continuation of 1002:0346
Prerequisite: G 1002 0346

3 s.h.

G 1002 0497 Sculpture—Fabrication IV

Continuation of 1002:0347
Prerequisite: G 1002 0347

3 s.h.

G 1002 0498 Sculpture—Welding/Brazing IV

Continuation of 1002:0348
Prerequisite: G 1002 0348

3 s.h.

G 1003 0105 Art and Civilization I

The history of art from its beginning to the present. Museum visits and extensive reading. Required for Fine Arts majors.

3 s.h.

Prerequisite: Taken serially

G 1003 0106 Art and Civilization II

Continuation of 1003: 0105.

3 s.h.

Prerequisite: G 1003 0105

G 1003 0215 Ancient Art

The origins of man's art and the civilizations of the ancient world, Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations.

3 s.h.

G 1003 0216 Renaissance Art in Italy: The Fifteenth Century

The formation of Renaissance painting, sculpture and architecture during the Quattrocento, Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.

3 s.h.

G 1003 0217 Select Masterpieces World Art

An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For students majoring in other fields.

3 s.h.

G 1003 0322 Early Christian-Byzantine Art

The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine Art.

3 s.h.

G 1003 0323 Medieval Art

Painting, sculpture and architecture in the Romanesque and Gothic periods.

3 s.h.

G 1003 0324 Northern Renaissance Painting

Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland. Emphasis on Jan Van Eyck, Van Der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald.

3 s.h.

G 1003 0325 Seventeenth and Eighteenth Century Art

Painting, sculpture, and architecture in western Europe from 1600 to 1800. Baroque and Rococco styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.

3 s.h.

G 1003 0326 The Critical Approach

Historical criticism, criteria in art criticism, and an analysis of the critical process.

3 s.h.

G 1003 0327 History of Oriental Art

The factors that shaped Oriental society. The art of China, Korea, Japan, India, Southeast Asia and the neighboring Islamic world.

3 s.h.

G 1003 0328 Survey of Greek Art

Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period.

3 s.h.

G 1003 0329 American Art

Art in the United States from the colonial period through the nineteenth century. The development of American style in the light of its relationship to and dependence upon European art.

3 s.h.

G 1003 0331 Modern Art

Movements, personalities and styles from the late nineteenth century masters to cubism, futurism, realism, and other schools that shaped the modern movement. Lectures, readings, museum visits.

3 s.h.

G 1003 0332 Ancient Art of Europe

The non-classical traditions in prehistoric and early medieval Europe. The continuity of native, non-classical artistic trends from the cave art of Paleolithic Europe to the migration arts of the early Middle Ages. The arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings.

3 s.h.

Prerequisite: Instructor's permission

G 1003 0450 Modern Architecture

Major contributions to the development of modern architecture in the nineteenth and twentieth centuries. The development of styles, structural innovations and theories of design. 3 s.

G 1003 0451 Contemporary Art

The work of major artists of the twentieth century with particular reference to the dominant ideas of the period. Readings, museum trips, discussion of contemporary writing and criticism. 3 s.

G 1003 0452 Renaissance Art in Italy: The Sixteenth Century

The great masters of the Cinquecento. Leonardo, Michelangelo, Raphael, Giorgione and Titian. The emergence of mannerism and art and architecture in Rome, Venice, Florence and Bologna. 3 s.
Prerequisite: Work in field

G 1003 0454 Field Trips in Art History

An intensive three week tour of major centers of art in conjunction with specific courses in art history e.g., field trips to England, France, Holland, Italy, Greece, Mexico and to various American cities and areas. Offered only during winter session. 3 s.

G 1003 0455 Select Problems in Art History

A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture). Lectures, reports, museum and studio visits, discussion. 3 s.

G 1003 0456 Modern Philosophies of Art

The work of major writers about art in the nineteenth and twentieth centuries. The nature of creative experience, the function of art in the life of the individual and of society, the nature of creative process, the rise of new materials and institutions. The development of sentiments and attitudes affecting thinking in the field. 3 s.

G 1003 0457 Pre-Columbian, Oceanic and African Art

The major styles of Oceania, Africa, South and Central America before Columbus. 3 s.

G 1003 0458 Traditional Arts of Sub-Saharan Africa

The painting, sculpture and minor arts of the cultures of Africa. Prehistoric remains and art traditions of the more recent past in the context of stylistic groupings. Relation to ceremony and to daily symbolism and relations to the arts of other cultures. 3 s.

G 1003 0459 Art of the Nineteenth Century

The major movements of the nineteenth century. Classicism, romanticism and realism. The salon and midcentury, impressionism, post-impressionism. 3 s.

G 1003 0460 Nineteenth Century American Architecture

Building in the United States during the nineteenth century. Social, economic and political forces determinants of architectural form, interior design and decoration. Works by Latrobe, A.J. Downing, Ithiel Towne, H.H. Richardson and Louis Sullivan emphasized. 3 s.

G 1003 0461 Nineteenth Century American Painting

Painting in the United States during the nineteenth century. Portrait, landscape and genre traditions. The Hudson River School, the genre painters, the expatriates and the independents. Folk and primitive paintings. Some knowledge of European painting is desirable. 3 s.

G 1003 0462 Senior Seminar

A seminar in selected artistic problems of historic, social and philosophical nature. Prerequisite: Instructor's permission 3 s.

G 1003 0463 Resources and Methods of Research in the Arts

Bibliographic and other scholarly resources. The special problems of scholarship and research. 3 s.

G 1003 0469 Art of Twentieth Century

From Picasso to today. Scientific & social forces transforming the artist's vision, including the theories of Freud & Bergson. 3 s.

G 1003 0483 Independent Study in Art History		
May be repeated for credit.		3 s.h.
Prerequisite: Instructor's permission		
G 1003 0485 Ancient Art in Italy: Etruscan and Roman Art		
The arts of the Etruscans and Romans in their historical, cultural and religious settings.		3 s.h.
G 1003 0487 Afro-American Art		
Afro-American art in the United States from colonial times to the present.		3 s.h.
G 1010 0218 Film Making I		
Basic elements of film production. Script, camera, light, sound, editing.		3 s.h.
G 1010 0219 Film Making II		
Continuation of 1010:0218.		3 s.h.
Prerequisite: G 1010 0218 Instructor's permission		
G 1010 0221 Television as Art Form I		
Artistic statements produced on tape and film.		3 s.h.
Prerequisite: Instructor's permission		
G 1010 0222 Television as Art Form II		
Continuation of 1010:0221		3 s.h.
Prerequisite: G 1010 0221 Instructor's permission		
G 1010 0332 Film Editing		
Principles and techniques of film editing. Artistic and esthetic concepts. Practice with standard editing equipment.		3 s.h.
Prerequisite: G 1010 0219 Instructor's permission		
G 1010 0333 Principles of Cinematography		
Exercises in the use of camera equipment and practice in composition, perspective, interpretive lighting and camera movement.		3 s.h.
Prerequisite: G 1010 0219 Instructor's permission		
G 1010 0336 Television as Art Form III		
Continuation of 1010:0222.		3 s.h.
Prerequisite: G 1010 0222 Instructor's permission		
G 1010 0400 History of Cinema as Art		
The development of the motion picture as an art form from its earliest stages to the present—the technical, social, economic, cultural and esthetic factors. May be repeated once for credit.		3 s.h.
G 1010 0453 Filmmaking III		
Continuation of 1010:0219.		3 s.h.
Prerequisite: G 1010 0219		
G 1010 0472 Documentary Film Workshop		
Documentary film production. Individual or group expression in making a non-fictional film.		3 s.h.
Prerequisite: G 1010 0219 Instructor's permission		
G 1010 0473 Narrative Film Workshop		
Narrative film production. Individual or group expression in making a fictional film.		3 s.h.
Prerequisite: G 1010 0219 Instructor's permission		
G 1010 0474 Television as Art Form IV		
Continuation of 1010:0336.		3 s.h.
Prerequisite: G 1010 0336 Instructor's permission		
G 1010 0475 Television Projects I		
Problems of contemporary television production, student-faculty critique of the product as an art form.		3 s.h.

G 1010 0476 Television Projects II		3 s.h.
Continuation of 1010:0475.		
Prerequisite: 1010:0475		
G 1010 0491 Independent Study in Film I		3 s.h.
Topics selected with the approval of the instructor.		
G 1010 0492 Independent Study in Film II		3 s.h.
Topics selected with the approval of the instructor.		
Prerequisite: G 1010 0491 Instructor's permission		
G 1010 0493 Independent Study in Film III		3 s.h.
Topics selected with the approval of the instructor.		
Prerequisite: G 1010 0492		
G 1010 0494 Independent study in Film IV		3 s.h.
Topics selected with the approval of the instructor.		
Prerequisite: G 1010 0493		
G 1010 0499 Film Making IV		3 s.h.
Continuation of 1010:0453.		
Prerequisite: 1010:0453		
G 1011 0213 Photography I: A Contemporary Art Form		3 s.h.
The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, film, discussion, lectures, criticism and demonstration.		
G 1011 0214 Intermediate Photography: A Contemporary Art Form		3 s.h.
Continuation of 1011:0213.		
Prerequisite: G 1011 0213		
G 1011 0250 Photo Transparency Materials		4 s.h.
Control and manipulation of color and monochrome transparency materials. Emphasis on visual awareness, personal direction, and technical skill.		
Prerequisite: G 1011 0213 or Instructor's permission		
G 1011 0310 Advanced Photography: A Contemporary Art Form		4 s.h.
Workshop, discussion, lecture, demonstrations, criticism. Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, system and view camera.		
Prerequisite: G 1011 0213		
G 1011 0311 Special Process in Photography		4 s.h.
Non-traditional light sensitive materials for use in the photographic image making process. Extension of traditional boundaries of photography through new tools permitting greater image manipulation		
Gum bichromate, cyanotype, platinum, photo etching, and others.		
Prerequisite: G 1011 0214 Instructor's permission		
G 1011 0425 A Contemporary Art Form, I		3 s.h.
Topics for investigation are selected with the approval of the instructor.		
Prerequisite: Instructor's permission		
G 1011 0426 Photography: A Contemporary Art Form II		3 s.h.
Topics for investigation are selected with the approval of the instructor.		
Prerequisite: G 1011 0425		
G 1011 0427 Photography: A Contemporary Art Form III		3 s.h.
Topics for investigation are selected with the approval of the instructor.		
Prerequisites: G 1011 0425, G 1011 0426		
G 1011 0428 Photography: A Contemporary Art Form IV		3 s.h.
Topics for investigation are selected with the approval of the instructor.		
Prerequisites: G 1011 0425, G 1011 0426, G 1011 0427		

G 1011 0484 A History of Photography

The roots of photography, its practitioners and the social and historical circumstances surrounding its creation.

3 s.h.

G 1090 0200 Soft Skins I

Use of skins and hides to create items of artistic and/or functional value emphasis on the design and execution of works in one or all forms of leather and fur.

3 s.h.

G 1090 0202 Ceramics Pottery and Sculpture I

Forming methods, clay composition, glazing and firing, the history of ceramics.

3 s.h.

G 1090 0203 Ceramics Pottery and Sculpture II

Continuation of 1090:0202

3 s.h.

Prerequisite: G 1090 0202

G 1090 0204 Fibers & Fabrics I

Techniques employed by fiber artists and the textile industry. On-loom and off-loom weaving, spinning and vegetable dyeing, and fabric and fiber techniques in contemporary work.

3 s.h.

G 1090 0205 Fibers & Fabrics II

One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods.

3 s.h.

Prerequisite: G 1090 0204

G 1090 0206 Soft Skins II

Continuation of 1090:0200

3 s.h.

Prerequisite: G 1090 0200

G 1090 0210 Textile Design I

Pattern rendering and putting designs into repeat for the textile industry.

3 s.h.

G 1090 0218 Metalwork and Jewelry I

Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.

3 s.h.

G 1090 0219 Metal and Jewelry II

Advanced design concepts and metalworking techniques.

3 s.h.

Prerequisite: G 1090 0218

G 1090 0301 Ceramics Pottery and Sculpture III

Continuation of 1090:0203

3 s.h.

Prerequisites: G 1090 0202, G 1090 0203

G 1090 0302 Ceramics Pottery and Sculpture IV

Continuation of 1090:0301

3 s.h.

Prerequisites: G 1090 0202, G 1090 0203, G 1090 0301

G 1090 0303 History of Textiles

The evolution of textile equipment and techniques from primitive cultures to the contemporary era.

3 s.h.

G 1090 0304 Fibers and Fabrics III

Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.

3 s.h.

Prerequisite: G 1090 0205

G 1090 0305 Fibers and Fabrics IV

Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.

3 s.h.

Prerequisite: G 1090 0304

G 1090 0310 Soft Skins III

Continuation of 1090:0206

3 s.h.

Prerequisite: G 1090 0206

G 1090 0335 Metalwork and Jewelry III

Traditional techniques, advanced design concepts and techniques.

Prerequisite: G 1090 0219

3 s.h.

G 1090 0400 Textiles Traditions

Study of the unchanged textile traditions of both the East and West and their relation to the contemporary fiber experience.

3 s.h.

Prerequisite: G 1090 0204

G 1090 0407 Fiber Sources Field Trips

Weekly field trips to museums and galleries, artists' studios and textile companies in New York and New Jersey.

3 s.h.

Prerequisite: G 1090 0204

G 1090 0412 Independent Study in Ceramics Pottery and Sculpture I

Topics for investigation are selected with the approval of the instructor.

3 s.h.

G 1090 0413 Independent Study in Ceramics Pottery and Sculpture II

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisite: G 1090 0412

G 1090 0414 Independent Study in Ceramics Pottery and Sculpture III

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisites: G 1090 0412, G 1090 0413

G 1090 0415 Independent Study in Ceramics Pottery and Sculpture IV

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisites: G 1090 0412, G 1090 0413, G 1090 0414

G 1090 0416 Independent Study I: Textiles

Topics for investigation are selected with the approval of the instructor.

3 s.h.

G 1090 0417 Independent Study II: Textiles

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisite: G 1090 0416 Instructor's permission

G 1090 0418 Independent Study III in Textiles

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisite: G 1090 0417 Instructor's permission

G 1090 0419 Independent Study IV in Textiles

Topics for investigation are selected with the approval of the instructor.

3 s.h.

Prerequisite: G 1090 0418 Instructor's permission

G 1090 0436 Metalwork and Jewelry IV

Continuation of 1090:0335

3 s.l.

Prerequisite: G 1090 0335

G 1090 0437 Independent Study Metalwork & Jewelry I

Topics for investigation are selected with the approval of the instructor.

3 s.l.

G 1090 0438 Independent Study in Metalwork and Jewelry II

Topics for investigation are selected with the approval of the instructor.

3 s.l.

Prerequisite: G 1090 0437

G 1090 0439 Independent Study in Metalwork and Jewelry III

Topics for investigation are selected with the approval of the instructor.

3 s.

Prerequisite: G 1090 0438

G 1090 0440 Independent Study in Metalwork and Jewelry IV

Topics for investigation are selected with the approval of the instructor.

3 s.

Prerequisite: G 1090 0439

G 1090 0441 Fibers and Fabrics V

Continuation of 1090:0305

3 s.h.

Prerequisite: G 1090 0305

G 1090 0442 Fibers and Fabrics VI

Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.

3 s.h.

Prerequisite: G 1090 0441

G 1090 0496 Soft Skins IV

A continuation of the study of skins, hides and fur as creative materials. Emphasis is placed on the use of the basic skills learned in the preceding courses.

3 s.h.

Prerequisite: G 1090 0310

G 4922 0223 Shelter Form as Art I

The concepts and forms of shelter. The ways in which men and animals have housed themselves from primitive times to the present. Interior spacial qualities and utilization and the role of adornment, decoration and exterior configurations. Projects include model making.

3 s.h.

G 4922 0224 Shelter Form as Art II

Problems of shelter form and space dealt with through workshop basic building construction. Full-scale models of environmental solutions will be built. Projects include domes, inflated buildings, shelter sections and sensory spaces.

3 s.h.

Prerequisite: G 4922 0223

G 4922 0235 Ritual-Event and Performance I

Exploration of how man's universal and long standing impulses are made into coherent ritual events or performances. The total art act which employs time, space and the group creative process.

3 s.h.

G 4922 0337 Explorations in Contemporary Uses of Art

Art as a functional part of the contemporary community reactions between people and the city environment. The visual potential of science and technology and its application to problems of visual form in relation to architectural and urban environment.

3 s.h.

G 4922 0338 Shelter Form as Art III

Continuation of 4922:0224

3 s.h.

Prerequisite: G 4922 0224

G 4922 0340 Selected Problems in Urban Cultural Development

Consideration of a specific problem relating to creating a sensuously exciting and stimulating city and community form.

3 s.h.

G 4922 0341 History of City Form

Conceptual and esthetic planning of city form from primitive village patterns and the ancient towns of India and Egypt to schemes for the future. The significance of squares and public spaces. The question of scale and the ways in which forms and spaces are experienced.

3 s.h.

G 4922 0351 Community Form as Art I

Studio in contemporary design. The elements of form and space including natural configurations, building shapes and scale, paths of movement, city furnishings and visuals, recreational areas. Field trips and projects.

3 s.h.

G 4922 0352 Community Form as Art II

Continuation of 4922:0351

3 s.h.

Prerequisite: G 4922 0351

G 4922 0400 Designing Learning Environment

The role of the physical environment as the medium of learning experience. The methods and materials for making places that stimulate, focus and respond to the learning needs of people designing and building projects for school, classroom and community.

3 s.h.

G 4922 0477 Shelter Form as Art IV

Continuation of 4922:0338

Prerequisite: G 4922 0338

3 s.h.

G 4922 0478 Art in Public Places

A studio concerned with urban areas defined by man's art and used by the public. Problems of using art work to achieve the desired ambience. Especially recommended for students of painting, sculpture, theater, music, dance.

3 s.h.

G 4922 0479 Independent Investigation in Urban Cultural Development

Topics for investigation will be selected with the approval of the instructor.

3 s.h.

Prerequisite: Instructor's permission

G 4922 0480 Urban Arts Program Planning

Work at an arts institution in a major city observing the institution's program. Participants in the course prepare a ten year development plan for an institution emphasizing city and institutional relations. Formal defense of the plan is required.

3 s.h.

G 4922 0481 Community Form as Art III

Continuation of 4922:0352

3 s.h.

Prerequisite: 4922:0352

G 4922 0482 Community Form as Art IV

Continuation of 4922:0481

3 s.h.

Prerequisite: 4922:0481

G 4922 0485 Ritual-Event Performance II

Advanced research projects and productions in designing rituals, events and performances and the ability to articulate understandings and concepts both in the written and spoken word. May be repeated for credit.

3 s.h.

Prerequisite: G 4922 0235

G 4922 0490 Art in the Community

From a community based classroom, work is done on specific problems in cultural development. Emphasis on the immediate locality and on questions of integration and communication with the residents and the evolution of a relevant community esthetic.

3 s.h.

Prerequisite: G 4922 0351 Instructor's permission

G 1091 0330 Museum Practice

A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs, field trips and, if possible, brief apprenticeships.

3 s.h.

G 1091 0489 Exhibition Workshop

Exhibition techniques and procedures. Mounting of shows on campus.

3 s.h.

G 1091 0490 Exhibition Workshop II

Continuation of 1091: 0489

3 s.h.

Prerequisite: G 1091 0489

G 4921 0120 Introduction to Printmaking

Woodcut, screen printing and monoprints. Etching, drypoint and lithography. Exploration of new and advanced techniques.

3 s.h.

G 4921 0200 Introduction to Intaglio & Relief Printing

Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint.

3 s.h.

G 4921 0201 Introduction to Screen Printing

Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques.

3 s.h.

G 4921 0202 Introduction to Lithography I

Chemicals, tools, materials and techniques of the process.

3 s.h.

G 4921 0334 Multi-Media Publication

Production of a publication appealing to the auditory, tactile and olfactory senses and using three-dimensional materials as well as conventional two-dimensional pages. The artist's role in performing for mass production.

3 s.h.

Prerequisite: Instructor's permission

G 4921 0363 Advanced Printmaking I

Consideration of printmaking media. Particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

3 s.h.

G 4921 0364 Advanced Printmaking II

Continuation of Advanced Printmaking I

3 s.h.

Prerequisite: G 4921 0363

G 4921 0400 Advanced Printmaking III

Continuation of Advanced Printmaking II

3 s.h.

Prerequisite: G 4921 0364

G 4921 0401 Advanced Printmaking IV

Continuation of Advanced Printmaking III

3 s.h.

Prerequisite: G 4921 0400

G 4921 0431 Independent Study Printmaking I

Topics for investigation are selected with approval of instructor.

3 s.h.

G 4921 0432 Independent Study Printmaking II

Topics for investigation are selected with approval of instructor.

3 s.h.

Prerequisite: G 4921 0431

G 4921 0433 Independent Study Printmaking III

Topics for investigation are selected with approval of instructor.

3 s.h.

Prerequisite: G 4921 0432

G 4921 0434 Independent Study Printmaking IV

Topics for investigation are selected with approval of instructor.

3 s.h.

Prerequisite: G 4921 0433

G 4921 0464 The Art and History of the Print

The principal types of prints from their beginnings to today. For both majors and students in other fields.

3 s.h.

G 4921 0470 Independent Study in Multi-Image Media

use of media for presentation, exhibition or publication—topics selected with the approval of the instructor.

4 s.h.

Prerequisite: Instructor's permission

Department of Music

Professors: Butterfield, Landsman, Mintz, Randolph, Ravina, Sacher, Shadel, Wilkes

Visiting Specialist: Arner (Chairman)

Associate Professors: Cooper, Hyman, Oneglia, Present

Assistant Professors: Bate, Girt, Hayton, Ho, Pratt, Waters, Wheeler, Wilt, Zemach

Instructors: Battersby, Greenblatt, Rendleman, Rettner

The Department of Music is accredited by the National Association of Schools of Music and the National Association for Music Therapy. It draws on the artistic milieu of the New York-New Jersey metropolitan area not only for its faculty, but also for its cultural, research, educational and laboratory sources.

Two undergraduate degrees with five concentrations are offered. The Bachelor of Music, with concentrations in performance and theory/composition, prepares students for careers in orchestral, choral and solo performance, arranging, studio teaching and related specialties. The Bachelor of Arts with concentrations in music education, music therapy and music history, provides certification programs for public school vocal/general/instrumental music teachers and registered music therapists and also provides a spectrum of studies preparing students for work in fields like music librarianship and concert management.

All degree programs and concentrations stress performance skills and breadth of music and considerable work in the liberal arts.

Students who wish to major in music must have a departmental interview, achievement test and audition to evaluate their qualifications. Prospective music majors should possess musicality, primary and secondary performing skills and a knowledge of elementary music theory, and should give evidence of serious music study throughout the high school years. They are urged to participate in choral and instrumental organizations in high school and to study piano.

The Department of Music is located in several buildings which include the Edna McEachen Recital Hall, large rehearsal halls, teaching studios, an electronic keyboard laboratory, piano practice rooms, organ practice rooms, a percussion studio, a library housing several thousand recordings, listening equipment, scores and books, and Memorial Auditorium. The music collections in Sprague Library, the College's main library, are unusually extensive.

The department maintains instruments of all types for rental by students.

Applied Music Entrance Requirements for All Music Majors

Piano Primary

- All major and harmonic minor scales, four octaves, hands together.
- I, IV, V triads and inversions in all major and minor keys.
- Sight-reading a four-part Bach chorale.
- Three compositions, at least one from memory: Bach, an invention, a prelude and fugue, or a suite; Haydn, Mozart, or Beethoven, a sonata; a composition by a romantic or modern composer.

Piano Secondary

- All non-keyboard majors must study secondary piano and take entrance placement examination even if they have previously studied piano.
- Entrance placement for the other secondary instruments may be made by audition.

Organ Primary

- All major and harmonic scales and chords through four octaves.
- Two compositions for piano: Bach, an invention (two or three parts); Beethoven, Chopin, Debussy, etc., a work of the student's choice.
- At least one year of organ study. Suggested materials: Gleason, Method for Organ; Dickinson, The Art of Organ Playing; Carl, Master Studies for Organ.
- Sight-reading of a hymn and a trio.
- Three works from memory: Bach, a Prelude and Fugue; an adagio movement by any composer; contemporary composition of the student's choice.

Voice Primary

- Evidence of a pleasing voice with good tonal placement, breath control and flexibility. (Previous study preferred but not required.)
- Sight-reading folk tunes and hymns.
- Two songs, one from memory, demonstrating musical feeling, good intonation and clear diction.
- Suggested Material: *Soprano*: Brahm, Wiegenlied; Quilter, arr., Drink to Me Only with These Eyes. *Contralto*: Burleigh, arr., Deep River; Giordani, Caro mio ben. *Tenor*: Barber, The Dairymaid; Purcell, Passing By. *Bass-Baritone*: Franz, Dedication; Quilter, arr., Drink to Me Only with These Eyes.
- Any selection of more difficult nature from standard opera and oratorio, or English, French, German and Italian art song repertory.

Voice Secondary

Ability to sing an art song with good intonation. Evidence of a voice giving promise of development.

String Instrument Primary

—All major and minor scales, two or three octaves. Sight-reading orchestral music of moderate difficulty.

—Violin

Study materials such as those by Mazas, Wolfahrt, Kreutzer.
Corelli, Handel, Vivaldi, etc., a sonata.
Viotti, Vivaldi, Accollay, etc., a concerto.

—Viola

Study materials such as Wolfahrt's foundation studies, Bks. 1 and 2.
A baroque solo sonata.

—Violincello

Study materials such as those by Lee, Dotzaure, Duport.
Golterman, Concerto No. 4; Bach, Arioso, or equivalent.

—Double Bass

Study materials such as Simando (Bk. 1).
Bach, Minuet in G; Corelli, Sarabande, or equivalent.

—Classical Guitar

Milan, Pavanes (any three); deVisee, Suite in D minor, Villa Lobos,
Preludes Nos. 1 and 4.

Woodwind Instrument Primary

—Chromatic and all major scales, full range of instrument.

—Sight-reading band or orchestral music of class A or B.

—Flute

Study materials such as those by Boehm and Anderson, demonstrating a degree of technical advancement.
Bach, Handel, Telemann, etc., a modern unaccompanied solo.

—Oboe

Study materials such as Ferling, Forty Etudes.
A standard solo sonata.

—Clarinet

Study materials such as those by Klose, Baerman, Lazarus, Rose, demonstrating technical advancement.
Brahms, Soprano, Saint-Saens, etc., a standard solo.

—Bassoon

Study materials from Weissenborn. Method, pp. 10-38. Mozart, Concerto, K. 191.

—Saxophone

Study materials such as those by Karg-Elert, Massis, Traxler.
A standard solo work.

Brass Instrument Primary

All major scales, two octaves where possible.

Sight-reading of band and orchestra music of class A or B level.

—Trumpet-Cornet

Study materials such as Arban, Characteristic Studies.
Haydn, Trumpet Concerto (any movement).

—French Horn

Oscar Franz, Method for Horn.
Mozart, any movement from a concerto.

—Trombone-Baritone

Tyrell, Forty Progressive Studies.
Blazevich, Concerto Sketch No. 5.

—Tuba

Arban, Method (bass clef) to be played one octave lower.
Bach-Bell, Air and Bourree, or equivalent.

Percussion Instrument Primary

Sight-reading of orchestral excerpts.

—Snare Drum

 Selected technical rudiments.

—Timpani

 Demonstrate ability to tune and execute single stroke roll.

—Mallet Instruments

 All major and minor scales, triadic arpeggios, a solo piece of the student's choice.

Harp Primary

—Three pieces from the following list or equivalent.

 Etudes by Bochsa, Pozzoli, Etudes Modernes of Salzedo.

 Sonatas by Naderman, Krumpholtz.

 Solos: Two French Folksongs by Grandjany; Little Fountain by Pratt; Album Leaves by Renie or works of equivalent difficulty.

Final Admission to Program

Theory-Composition, full admission to this program is delayed until the junior year. In addition to the full audition procedure, candidates for this program must submit a portfolio of composition and/or analytical sketches before the completion of the sophomore year.

Music Education, full admission to this program is delayed until the junior year. Prior to the completion of the sophomore year, candidates must be interviewed successfully. A review of their credentials must demonstrate a 3.0 average in music courses, completion of all program prerequisites and other qualities essential for good teaching.

Music Therapy, an interview and an evaluation of all credentials including reports of clinical experience must be completed before the end of the sophomore year before full admission is granted.

Music History, candidates must demonstrate excellence in writing and speaking, and in addition to a proven interest in music and performance skills, an excellent record in traditional academic disciplines.

Performance, candidates must demonstrate a solid grasp of the technical aspects of the performing media and a genuine musicality and sensitivity. Before full admission is granted, a successful sophomore recital must be performed.

Comprehensive Examination

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in several areas: the performing primary; functional keyboard skills; theoretical and practical skills; secondary vocal skills. This examination is a basic part of all credentials submitted for junior status or for full admission to any of the degree programs.

Applied Music Requirements For Graduation

Each music major is required to complete an applied music sequence in the performing skill of which his acceptance to the department was based, and a sequence in a secondary medium. Either the primary or secondary must be a keyboard instrument.

The amount and extent of study in applied music varies with the area of concentration.

Students majoring in performance will present a recital before the end of the sophomore year and another recital in the senior year. Students majoring in music education will present a recital in the senior year. Additional secondary instruction is available when schedules and other considerations allow.

All music students must study with members of the college faculty. Instruction in applied mus-

during the summer session is taken at the student's expense. Students are expected to accompany on the piano at a level of their ability designated by their teachers and to participate actively in the musical life of the college and community.

Recital/Seminar Requirements For Graduation

Twice each week the Department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guest artists. Students must register for this every semester under the course, H 1015 0029 STUDENT RECITAL, on a pass/fail basis. Students who fail to complete this requirement must take a qualifying examination for each semester missed.

Ensemble Requirements

The following guidelines are established to safeguard the vocal and instrumental resources necessary for authoritative performances of the ensemble repertory. Students will thus be assured of the best possible ensemble experiences.

The ensemble policy is based on the principle that *all students must perform in ensemble(s) each semester of their attendance at Montclair State College*. The requirement varies with concentration as follows:

Concentration	Large Ensemble (no. of semesters)	Chamber Ensembles (no. of semesters)	Total No. of Semesters	
			Min.	Max.
3.A. Music Education	4-8	2-4	8	12
3.A. Music History	4-8	2-4	8	12
3.A. Music Therapy	4-8	2-4	8	12
3. Mus. (Performance and Composition)	4-8	4-8	8	12

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may with the chairman's consent be substituted for performance in a small ensemble. *A large ensemble may thus substitute for a chamber ensemble.*

Though an effort will be made to accommodate students in the ensemble of their choice, the needs of the ensembles themselves are paramount and students must normally expect to be assigned at the chairman's discretion. Students can be assigned to a maximum of twelve ensembles in their undergraduate careers. The list for formally recognized large and chamber ensembles will be updated as necessary.

Large Ensembles

Concert Choir
Concert Band
Symphonic Band
Laboratory Orchestra
Orchestra

Chamber Ensembles

All other ensembles, including piano accompaniment with the approval of the primary teacher

Placement in and assignment to ensembles will be made before the pre-registration period for the semester for which the assignment is made. Freshmen and transfer students for whom this procedure is not workable will be given ensemble assignments as soon after their admission to MSC as possible in conjunction with their primary teachers and concentration coordinators.

Specific requirements will vary according to the student's concentration and primary instrument.

Vocalists who wish to participate in more than one vocal ensemble in a given semester must have the permission of their primary teachers.

Instrumental Rental

A fee of \$20 per semester is charged students who rent college-owned instruments. Instrumental fees are separately charged for summer rental.

**Bachelor of Music
Concentration in Music Performance**

	Semester Hour
Applied Music	
Primary/Major Instrument*	2
Master Class	.....
Literature of Primary/Major Instrument	.....
Secondary Instrument	0-
Ensembles	.....
Pedagogy	.....
Music Theory and History	
H 1016 0101, 0201, 0202	1
H 1006 0307, 0308 Music History I, II	.....
Theory electives	
(H 1016 0301, 0302, 0303, 0304, 0311, 0312, 0412, 0498)	.....
Additional Requirements	
H 1004 0335 Elementary Conducting	.....
H 1004 0429 Choral Conducting	.....
Music Electives	.....
H 1015 0029 Student Recital (P/F) 8 semesters	.....
	REQUIRED TOTAL

*Primary/Major Instruments include: flute; oboe; clarinet; saxophone; bassoon; French horn; trumpet; baritone horn; trombone; tuba; percussion; harp; piano; organ; harpsichord; voice; violin; viola; violoncello; double bass and guitar.

NOTE: Recitals in the sophomore and senior years are required.

The Applied Music Coordinator, in conjunction with faculty from the student's primary area, reserves the right to assign performance majors to large or chamber ensembles.

The collateral course, T 4902 0105 Acoustics, may be applied to general education requirements.

**Bachelor of Music
Concentrations in Brass & Woodwind Instruments, Keyboard, Stringed Instruments
Percussion Instruments**

	Semester Hour
Applied Music	
Primary Instrument	.....
Secondary Instrument	.....
Master Class	.....
Ensembles	.....
Music Theory and History	
Music Theory	16-
Music History	.....
Instrumental Literature	.....
Selected Topics	.....
Additional Music Requirements	
Pedagogy	.....
Keyboard Harmony	.....
Conducting	.....
	REQUIRED TOTAL

Concentration in Voice

	Semester Hour
Applied Music	
Primary Instrument
Secondary Instrument
Master Class
Ensembles

Music Theory and History		
Music Theory .....	.....	16
Music History .....	.....	6
Additional Music Requirements		
Italian Rep. and Dict. I-II .....	.....	2
French Rep. and Dict. I-II .....	.....	2
German Rep. and Dict. I-II .....	.....	2
English Rep. and Dict. I-II .....	.....	2
	REQUIRED TOTAL	76
Required Collateral Courses		
French Language II .....	.....	3
German Language II .....	.....	3

Concentration in Theory/Composition

	Semester Hours
Music Theory	
Music Theory .....	.....
Counterpoint, Orchestration .....	.....
Electronic Music .....	.....
Music Theory Electives .....	.....
Music Composition	
Composition .....	.....
Additional Music Requirements	
Secondary Instrument (piano) .....	.....
Keyboard Harmony .....	.....
Music History .....	.....
Elementary Conducting .....	.....
Instrumental Instruction .....	.....
Music Elective .....	.....
Ensembles .....	.....
	REQUIRED TOTAL

Students should refer to the curriculum for additional general education requirements.

Bachelor of Arts Concentration in Music Therapy

	Semester Hours
Applied Music	
Primary Instrument .....	.....
Secondary Instrument .....	.....
Ensembles .....	.....
Secondary Guitar .....	.....
Music Theory and History	
H 1016 0101, 0102, 0201, 0202, 0401 .....	.....
H 1006 0307, 0308 Music History I, II .....	.....
Additional Requirements	
H 0832 0105, 0205, 0206, 0306 Strings, Brass, Woodwinds, Percussion Instruments .....	.....
H 1004 0335, 0429 Elementary and Choral Conducting .....	.....
H 1015 0150 Influence of Afro-American Music on Culture or	
H 1015 0160 Introduction to Music in World Cultures .....	.....
H 1017 0460 Use of Recreational Music in Therapy .....	.....
H 1017 0361, 0362, 0363, 0364 Music Therapy Practicum I-IV .....	.....
H 1015 0029 Student Recital (P/F) 8 semesters .....	.....
	REQUIRED TOTAL
Professional Sequence	
Psychology of Handicapped and Abnormal .....	.....
Introduction to Music Therapy I & II .....	.....

Psychological Foundations of Music I & II	
Influence of Music on Behavior	
Piano Improvisation	
Music in Therapy	
Clinical Experience II (6 months)	
Introduction to Art Therapy	

REQUIRED TOTAL

General Education to include the following courses:

Biology, Sociology, Individual and Group Dynamics	
Acoustics, Statistics, Dance	
General Psychology and Child Psychology	

NOTE: The coordinator of music therapy, in conjunction with the primary teacher, reserves the right to assign student to large or chamber ensembles according to individual needs of students.

Bachelor of Arts Concentration in Music Education

Semester Hou

Applied Music	
Primary Instrument	
Secondary Instrument	
Ensembles	
H 1004 0335 Elementary Conducting	
Music Theory and History	
H 1016 0101, 0102, 0201, 0202	
H 1006 0307, 0308 (Music History I, II)	
Theory Electives (H 1016, 0304, 0412)	
H 1015 0029 Student Recital (P/F) 8 semesters	
Professional Sequence in Music Education	
H 0832 0105 String Instrument	
H 0832 0205 Brass Instruments	
H 0832 0206 Woodwind Instruments	
H 0832 0306 Percussion Instruments	
H 0832 0420 Secondary Methods	
H 0832 0336 School Orchestras and Bands	

REQUIRED TOTAL

NOTE: As part of the large ensemble requirement, the student with a music education concentration must have semesters of laboratory band or orchestra. In addition, he/she must register for H 0832 0336 Schol Orchestras and Bands in two short terms prior to the junior and senior teaching experience. The coordinator of music education in conjunction with the primary teacher reserves the right to assign a student to large or chamber ensembles.

A senior recital of at least 30 and no more than 35 minutes of music is required in the seventh semester of primary instrument study.

To complete state certification requirements, the following additional courses are required:

Education (C 0821 0220, D 0808 0407, 0408)	
Psychology (7 2001 0200)	
H 0832 0320 Elementary Music Methods	
Junior Observation Experience	
Junior and Senior Teaching Experiences (4 each)	
Teacher, School and Society	
Senior Seminar	
Professional Seminar	

REQUIRED TOTAL

The collateral course T 4902 0105 Acoustics may be applied to general education requirements.

**Bachelor of Arts
Concentration in Music History**

	Semester Hours
Applied Music	
Primary Instrument	4
Secondary Piano*	4
Ensembles	4
Music Theory and History	
H 1016 0101, 0102, 0201, 0202	16
H 1006 0307, 0308 Music History I, II	6
H 1015 0160 Music in World Cultures	3
H 1006 Music Literature Electives	12
H 1006 0462 Music Seminar	3
H 1016 Music Theory Electives	3
H 1015 0029 Student Recital (P/F) 8 semesters	0
Thesis	0
	REQUIRED TOTAL
	55

General Education to include the following courses:

Literature, Foreign Language, Art	12
Mathematics, Business	6
History	6
Collateral Requirements	
German (4 semesters)	12
Introduction to Theater or Art	3
Art History Elective	3
Theater History Elective	3
Seminar	3
History or Literature Elective	3

*If keyboard is the primary, keyboard harmony is required.

NOTE: The music history advisor in conjunction with the theory-history faculty reserves the right to assign a student to large or chamber ensembles.

**Music
Course Descriptions**

H 0832 0105 String Instruments I

Elementary playing skills, violin being the basic instrument for all who lack string experience. Materials and methods for beginning string classes. 1 s.h.

H 0832 0132 Marching Band Techniques

Methods, organization and planning drill design, playing, rehearsal techniques. 2 s.h.

H 0832 0205 Brass Instruments

Elementary skills on trumpet, horn, trombone and other brasses. Materials and procedures for teaching these instruments in beginning classes. 1 s.h.

H 0832 0206 Woodwind Instruments

Skills on clarinet, flute, oboe and other woodwinds. Materials and methods for teaching these instruments; organizing woodwind classes. 1 s.h.

H 0832 0300 Principles and Practices of Music Education and Therapy

Basic educational methods and philosophies useful both to education and therapy students. Foundations of Orff and Kodaly techniques. Special attention to dealing with learning disabilities, mental retardation, emotional disturbance. Goal orientation and activities aimed at changing behavior through music. Team taught by specialists in music education and music therapy. 3 s.h.

Prerequisite: Permission of coordinators of music teacher education and music therapy.

H 0832 0302 Teaching Music in The Elementary Grades K-6

Principles, techniques, materials and methods: Kodaly, Orff, MMCP, Carabo-Cone. Techniques germane to both the traditional and more innovative school structures. Individualized instruction and techniques for small and large groups. The sequential curriculum in music education.

3 s.h.

Prerequisite: H 1016 0202

H 0832 0306 Percussion Instruments

Elementary skills on snare drum, bass drum, tympani, cymbals, bells, etc. Materials and methods for teaching these instruments in the classroom.

1 s.h.

Prerequisite: H 1016 0202

H 0832 0334 Choral Technique

Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.

2 s.h.

Prerequisite: H 1016 0202

H 0832 0335 Elementary Conducting

Baton technique and clef reading in orchestral and choral scores.

2 s.h.

Prerequisite: H 1016 0202

H 0832 0336 School Orchestras & Bands

Organization, selections, purchase and care of instruments, evaluation of materials, techniques of instruction, substitution of parts, rehearsal routine, marching band repertory suitable for high school orchestras and bands.

2 s.h.

Prerequisites: H 0832 0205, H 0832 0206

H 0832 0405 Orchestra Conducting and Score Reading

Ear training appropriate to conducting; baton technique, score reading, interpretation.

2 s.h.

Prerequisites: H 1004 0335, H 1016 0302, CRS in similar field

H 0832 0420 The Teaching of Music in Secondary Schools

Philosophy, aims, content and procedures of music teaching in the junior and senior high school. Emphasis upon the teaching of the general music class and the incorporation of new methods. Lesson plans and units of work for use in the classroom. Includes observation and participation.

3 s.h.

Prerequisite: H 0832 0320

H 0832 0430 Problems in Teaching School Music

Restricted to those who have completed student teaching. Evaluation of student-teaching experiences.

2 s.h.

Teaching problems and solutions, overview of music education.

Prerequisite: H 0832 0420 and completion of student teaching.

H 0832 0499 Independent Study in Music Education

Project and/or study area planned with sponsoring faculty member.

1-3 s.h.

Prerequisite: Instructor's permission

H 1004 0030 Choir

Instruction in flute, oboe, clarinet, saxophone, bassoon, french horn, trumpet, baritone horn, trombone, tuba, percussion, harp, piano, organ, voice, violin, viola, violoncello, double bass and guitar. A listing of course numbers for primary and secondary performing media is available in the office of the department of music as are suggested course sequences for the areas of concentration. All non keyboard majors will have class piano as a secondary instrument. All keyboard majors will have class voice as a secondary instrument.

1/2 s.h.

H 1004 0031 Orchestra

1/2 s.h.

H 1004 0032 Band

1/2 s.h.

H 1004 0033 Marching Band

1/2 s.h.

H 1004 0034 Opera Workshop

Musical theater studied through performance. Nature of dramatic music, problems of movement, make up, costuming, props and scenery. Open to juniors and seniors and to lower classmen by permission. Accompanying and singing roles assigned by audition.

2 s.h.

I 1104 0036 Ensemble Performance—Junior Music Education Majors Only

1/2 week ensemble performance in the spring semester of the junior year. Music Ed. majors only, primary ensemble. 1/3 s.h.

I 1004 0037 Ensemble Performance—Senior Music Education Majors Only

1/2 week ensemble performance in the spring semester of the senior year. Music Ed. majors only, primary ensemble. 1/3 s.h.

I 1004 0038 Collegium Musicum I

Study of early instruments: Viola Da Gamba, lute, recorder, cromorne, sackbut, organetto, psaltery, etc. Consort performance of medieval, renaissance, and early Baroque Music. 1/2 s.h.

I 1004 0039 Collegium Musicum II

Continuation of 1004:0038. 1/2 s.h.

Prerequisite: H 1004 0038

I 1004 0040 Master Class in Musical Performance Piano

Performance of piano repertoire for coaching on interpretation, style, analysis, technique, etc. Required conjunction with each course in the primary and major instrument. 0 s.h.

Prerequisite: Piano primary instrument requirement must be met.

I 1004 0100 Classical Piano for Non-Music Majors

Musical skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary. 3 s.h.

I 1004 0429 Choral Conducting

Professional work for teachers-in-service. Tone production, tuning, posture, score reading, interpretation and techniques of choral conducting. Materials suitable for use in high school. 2 s.h.

Prerequisite: H 1004 0335

I 1004 0300 Jazz Band-Improvisation Lab

Improvisation and performance techniques studied through ensemble rehearsals. Creative use of instrumental and harmonic skills in the jazz idiom. 2 s.h.

I 1004 0301 Chamber Ensemble Performance

Study through playing or singing of chamber music in ensembles of varying size and musical styles. Prerequisite: Ability to perform at a level satisfactory to instructor. 1/2 s.h.

I 1004 0302 Jazz Ensemble

Temporary ensemble requirements like jazz phrasing, section playing, interpretation, improvisation carried through ensemble rehearsal and performance. 1/2 s.h.

Prerequisite: Instructor's permission

I 1004 0335 Elementary Conducting

Conduction technique and clef reading in orchestral and choral scores. 2 s.h.

Prerequisite: H 1016 0202

I 1004 0340 Vocal Literature I (Italian)

Italian art songs. Interrelation of the poetic text, the vocal musical line and the instrumental part; technical and the stylistic demands of the music. Italian diction introduced. Emphasis on listening and performing. 2 s.h.

I 1004 0461 Project in Music I—Opera Production

Production and direction of a contemporary opera, folk musical or original work. Open to all students by audition. 3 s.h.

I 1004 0499 Independent Study in Music Performance

Project and/or study area planned with sponsoring faculty member. 3 s.h.

Prerequisite: Sponsoring instructor's permission.

I 1004 3101 Secondary Instrument Piano I

Keyboard skills including major and minor scales, arpeggios and chord progressions, sightreading, composition, harmonization, improvisation. 1 s.h.

H 1004 3102 Secondary Instrument Piano II

Continuation of 1004:3101.

Prerequisite: 1004:3101

H 1004 3103 Secondary Instrument Piano III

Continuation of 1004:3102.

Prerequisite: 1004:3102

H 1004 3104 Secondary Instrument Piano IV

Continuation of 1004:3103. A final comprehensive examination must be passed at the end of semester.

Prerequisite: 1004:3103

H 1004 3105 Improvisations for Music Therapy Major I

Improvisation including basic Nordoff-Robbins techniques.

Prerequisite: 1004:3104 or its final examination

H 1004 3106 Harmonization for the Music Therapy Major II

Continuation of 1004:3105 and composition of songs.

Prerequisite: 1004:3105

H 1006 0201 Metropolitan Opera—Seminar in the Study of Opera

Study of opera at the Metropolitan Opera House, observation of rehearsals, lecture-demonstrations, on-site study of technical aspects of opera production. Additional research opportunities provided for third credit hour.

H 1006 0307 Music History I

Styles, genres and shaping forces of western music from the rise of polyphony in the early middle ages through the early works of Beethoven.

Prerequisite: Majors only or instructor's permission.

H 1006 0308 Music History II

Continuation of 1006 0307, beginning with Beethoven. The music of the romantic era as manifested in the nineteenth and twentieth centuries. Major currents of the modern era.

Prerequisite: H 1006 0307

H 1006 0407 Music History III

Major figures, forms, genres and styles from Debussy to the present.

Prerequisites: H 1006 0307, H 1006 0308, majors only or instructor's permission.

H 1006 0462 Projects in Music I (Seminar)

Research of a project or problem in an area selected by each student with the instructor's approval. Conducted in America or abroad.

Prerequisite: Instructor's permission.

H 1006 0463 Projects in Music II (Seminar)

Research on a project or problem in an area selected by each student with the instructor's approval. Conducted in America or abroad.

Prerequisite: H 1006 0462 Instructor's permission.

H 1006 0499 Independent Study—Music History

Project and/or study area planned with sponsoring faculty member.

Prerequisite: Instructor's permission

H 1015 0029 Student Recital

All music majors must register for this number in order to free their schedules for recital commitments.

H 1015 0100 Introduction to Music

Expansion of musical awareness thru live performance and directed listening.

H 1015 0150 Influence of Afro-American Culture on Music

Ways in which the Afro-American culture has colored the development of American folk and art music.

H 1015 0160 Intro-Music in World Cultures

The cultural and artistic forces which shape the musics of the nonwestern world and the various folk and art musics resulting from those forces. 3 s.h.

H 1015 0170 Recreational Music for the Large Group

Opportunity for all students, whether majoring in music or not, to participate in group musical activities. The specific character of the course will be determined by the class. 3 s.h.

H 1015 0208 Recreational Instruments for the Non-Music Reader

Elementary playing, accompanying, and teaching skills on instruments like accordion, recorder, tonette, autoharp, ukulele, harmonica, and guitar. 2 s.h.

Prerequisite: Instructor's permission

H 1015 0209 Introduction to Jazz

Jazz as an American phenomenon. Musical materials as manipulated by jazz artists, the impact on American popular music, dance and theater; early jazz players and developments. 3 s.h.

H 1015 0250 Sounds of the City

The sound spectrum of the city approached with the expanded idiation of contemporary music. The vehicle for study and experience will be the creation by the group of a 1-1 1/2 hour work based on sound of the city via electronic tape. 3 s.h.

H 1015 0309 The Art of Jazz

Development of Jazz in America and abroad, sociological implications in American society and the impact of jazz upon contemporary composition. 3 s.h.

Prerequisite: H 1015 0209

H 1015 0337 The Opera

Styles and approaches in music for purposes of dramatic characterization, atmosphere and plot development. Representative works in English, Italian, French and German, from Monteverdi to the present. 3 s.h.

H 1015 0338 Orchestral Literature

Representative genres and styles for large instrumental ensembles from the early Baroque era to the present. 3 s.h.

H 1015 0340 Music of the Romantic Period

The romantic spirit in nineteenth-century and selected modern works, program music, piano and song literature, and national schools of composition performance and directed listening. Parallel aspects of literature and the visual arts. 3 s.h.

H 1015 0350 Literature of Chamber Music

Various types of chamber music for vocal and instrumental groups. 3 s.h.

Prerequisite: Crs. in similar field.

H 1015 0351 Music in the Urban Society

Organization and management of concert halls, opera companies, music publishing firms and recording companies. Financing and anticipating the needs of the urban community. Construction and acoustics of halls and theatres. 3 s.h.

H 1015 0352 Music in Film

Aesthetic and social effects of music on cinematography—enhancing plot, augmenting visual qualities and focusing audience attention. Music from early silent films to modern. No previous music or film experience required. 3 s.h.

H 1015 0426 Survey of Music Literature

Song and art song, oratorio, opera, idealized dance forms, instrumental suites, symphonic poem principles of musical form. For the general student. 3 s.h.

H 1015 0462 Project in Music II—Opera Study Tour

Course description available in winter session brochure. Open to all students, but limited to enrollment twenty. Special fee to be announced. Pass/fail. Available only in winter session. 3 s.h.

H 1015 0499 Independent Study in Music

Project and/or study area planned with sponsoring faculty member.

1-3 s.h.

H 1016 0100 Music Composition for Non-Majors

Creative exploration of the various aspects of the craft of music composition. Deals with musical notation, instrumentation, forms, styles, contemporary techniques, performance practice, etc. 3 s.h.
Prerequisite: Ability to read music at a basic level, Crs. in similar field.

H 1016 0101 Theory I

Integrated study of harmony, counterpoint, and analysis of small forms with emphasis on aural and keyboard skills. Meets six hours weekly. 4 s.h.

H 1016 0102 Theory II

Continuation of topics and materials covered in Theory I. Meets six hours weekly.

4 s.

Prerequisite: H 1016 0101

H 1016 0150 Fundamentals of Music for the Non-Music Major

Introduction to music notation. Reading of clefs, key signatures and their relationship to various modes, rhythm and meter, basic harmonic structures (intervals, triads, and seventh chords). Sight singing at dictation are stressed. 3 s.

H 1016 0201 Theory III

Chromatic harmony. Intermediate contrapuntal techniques analysis of the larger instrumental form continuation of emphasis on aural and keyboard skills related to these areas. Meets six hours weekly.

4 s.

Prerequisites: H 1016 0101, H 1016 0102

H 1016 0202 Theory IV

Continuation of topics and materials covered in Theory III. Meets six hours weekly.

4 s.

Prerequisites: H 1016 0101, H 1016 0102, H 1016 0201

H 1016 0301 Proseminar in Music Theory

Coordinating seminar in analytical and aural skills and harmonic, contrapuntal and compositional procedures found in Western art music focusing on selected topics relevant to undergraduate students. Prerequisites: Add H 1016 0202-04, H 1016 0101, H 1016 0102, H 1016 0201 3 s.

H 1016 0310 Keyboard Harmony for Piano Majors I

The various skills pianists will need as professional performers, therapists, and educators. Harmonization of melodies, transposition, improvisation, realization of figured bass, reduction of open scores and sightreading. 1 s.

H 1016 0311 Keyboard Harmony for Piano Majors II

Continuation of 1016:0310.

1 s.

Prerequisite: H 1016 0310

H 1016 0340 Structural Analysis

Formal organization of selected compositions.

2 h.

H 1016 0341 Private Study in Composition

Restricted to majors in Theory/Composition.

2 h.

Prerequisite: H 1016 0202

H 1016 0342 Private Study in Composition

Restricted to majors in theory/composition.

2 h.

Prerequisite: H 1016 0341 Majors only

H 1016 0401 Musical Composition

Exploration of the various trends in the 20th century composition.

2 h.

Prerequisite: H 1016 0202

H 1016 0405 Selected Topics in Theoretical Studies

Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems. To be offered as short term courses.

2 h.

Prerequisite: H 1016 0301, H 1016 0302, CRS in similar field

H 1016 0412 Electronic Music Composition

Exploration of electronic music techniques. Practical experience in both concrete and synthesizer music.
Prerequisite: Crs. in similar field. Instructor's permission

3 s.h.

H 1016 0415 Theory Pedagogy

A survey of pedagogical approaches to music theory.
Prerequisite: H 1016 0202

2 s.h.

H 1016 0441 Private Study in Composition

Restricted to majors in theory/composition.
Prerequisite: Majors only. Instructor's permission.

2 s.h.

H 1016 0442 Private Study in Composition

Restricted to majors in theory/composition.
Prerequisite: Majors only. Instructor's permission.

2 s.h.

H 1016 0499 Independent Study in Theory/Composition

Project and/or study area planned with sponsoring faculty member.
Prerequisite: Instructor's permission

1-3 s.h.

H 1017 0160 Introduction to Music Therapy I

Survey of use of music therapy with various populations and other topics of relevance to the music therapist.
Prerequisite: Instructor's permission

2 s.h.

H 1017 0207 Band and Orchestra Instruments Pedagogy and Practicum

Techniques of playing violin, string bass, flute, clarinet, saxophone, trumpet, drum set, and, teaching methods appropriate to people with no music reading ability.
Prerequisite: Instructor's permission

2 s.h.

H 1017 0208 Recreational Instruments for the Music Reader

Elementary playing, accompanying, and teaching skills on accordion, popular and church organ, recorder, tonette, autoharp, ukulele, and harmonica.
Prerequisite: Crs. in similar field. Instructor's permission

2 s.h.

H 1017 0261 Introduction to Music Therapy II

Observing, measuring, and recording behavior in a music therapy setting and other aspects of planning for music therapy sessions as well as observing music therapy sessions.
Prerequisite: H 1017 0160 Instructor's permission

2 s.h.

H 1017 0360 Clinical Experience I

Two months full-time work with a population with whom a music therapist might work. May be paid or voluntary. May or may not include the use of music.
Prerequisite: Majors only, instructor's permission

1 s.h.

H 1017 0361 Music Therapy Practicum I

Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of the clinical work.
Prerequisites: H 1017 0160, H 1017 0261, H 1017 0460. Instructor's permission

1 s.h.

H 1017 0362 Music Therapy Practicum II

Continuation of Music Therapy Practicum I.
Prerequisite: H 1017 0361

1 s.h.

H 1017 0363 Music Therapy Practicum III

Continuation of Music Therapy Practicum II.
Prerequisite: H 1017 0362

1 s.h.

H 1017 0364 Music Therapy Practicum IV

Continuation of Music Therapy Practicum III.
Prerequisite: H 1017 0363

1 s.h.

H 1017 0460 The Use of Recreational Music in Therapy

A variety of music activities and how to adapt them for music therapy settings. Leadership techniques.
Simple instruments used in therapy.

2 s.h.

Prerequisite: H 1017 0261

H 1017 0461 Influence of Music on Behavior

Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.

3 s.h.

Prerequisite: Senior standing

H 1017 0462 Music in Therapy

Ways in which music therapy may be used in working with adult psychiatric patients, addictions offenders, and geriatrics. Setting up a music therapy program.

3 s.h.

Prerequisite: Senior standing

H 1017 0463 Psycho Foundations Music I

The basic literature concerning psychological research in music, with emphasis on research technique and interpretation of data. Findings will be used to discuss current ideas and practices in music therapy performance, and music education.

2 s.h.

Prerequisite: Junior standing, senior standing.

H 1017 0464 Psycho Foundations Music II

The emotional correlates of the musical experience explored through research findings, psychologic testing and inquiry, and philosophy. Implications of current theories applied to practices in music therapy, performance, and music education.

2 s.h.

Prerequisite: H 1017 0464

H 1017 0499 Independent Study Music Therapy

Project and/or study area planned with sponsoring faculty member.

3 s.

Prerequisite: Instructor's permission.

B 0829 0417 Music Education Supervised Study I

Supervised student teaching in a public school for one-half semester. Experience at elementary level at secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to Music majors beginning with class of 1980. 4 s.

Prerequisite: Admission to T.E. Registration with student teaching office.

B 0829 0418 Music Education Supervised Study II

Supervised student teaching in a public school for one-half semester. Experience at elementary level at secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to Music majors beginning with class of 1980. 4 s.

Department of Speech and Theater

Professors: McElroy, Rockwood, Seidler

Associate Professors: Bond (Chairman), Delgado, MacConnell, Moll

Assistant Professors: Bella, Bianchi, Eaton, Ratliff, Roberts, Sabatelli, Sobolik, Stasheff, Travis

Instructors: Figola, Hermans, Swinston

The Department of Speech and Theater offers both the Bachelor of Fine Arts and the Bachelor of Arts, each with several concentrations. The programs leading to the former are both extensive intensive and essentially preprofessional. The programs leading to the latter are broader and intensive and generally allow students time to pursue interests outside the department.

There are two areas of concentration leading to the Bachelor of Fine Arts, acting/directing design and technical theater. These programs are intended for the student seriously seeking to pursue a career in theater. Admission is limited and granted only after a successful interview.

audition/portfolio examination. Auditions will be held at least three times a year. The audition dates are available from the Admissions Office or the department.

There are five areas of concentration leading to the Bachelor of Arts: broadcasting; communication theory and practice; dance; teacher certification; theater.

The major consists of a basic core program, departmental electives and completion of one of the concentrations. An interview and/or audition must be successfully completed before the student may declare a major in the department. An interview is also required for a minor in speech and theater.

The department's Major Theater Series, telecast company, dance company and concerts, and intercollegiate forensic competitions provide for a blend of theory and practice in both degree programs and all areas of concentration.

Speech and Theater Major

	Semester Hours
Basic Core Program	
I 1007 0100 Introduction to the Theatrical Medium	3
I 1506 0103 Voice and Speech Improvement	3
I 0603 0280 Elements of the Public Media*	3
Concentration Requirements	23-30
Department Electives	1-11
REQUIRED TOTAL	40

*Elements of Public Media not required of the broadcast and dance major.

Concentration in Broadcasting

	Semester Hours
Requirements	
0603 0101 Introduction to the Broadcasting Medium	3
0603 0240 Writing for the Media	3
0603 0251 Radio-Television Production I	3
0603 0252 Television Production II	3
0603 0253 Radio Production II	3
0603 0350 Television Production III	3
elect Two:	
0603 0315 Political Broadcasting	3
0603 0380 Cultural Impact of Broadcasting	3
0603 0491 International Broadcasting	3
0603 0460 Station Management	3
(Any of the professional courses satisfy this requirement)	
REQUIRED TOTAL	24

Concentration in Dance Performance

	Semester Hours
Requirements	
+ credits of dance technique.* The following sequence is suggested.	
I008 0141, 0142 Modern Dance Technique—Beginning I, II	2 ea.
I008 0241, 0242 Modern Dance Technique—Intermediate I, II	2 ea.
I008 0280, 0281 Dance Practicum	2
I008 0251, 0252 Dance Technique—Ballet I, II	2 ea.
maining required courses	
I008 0161 Choreography I	2
I008 0210 History of Dance	2
I008 0480 Dance Production	3
elect one:	
I008 0253 Dance Technique—Jazz I	2
I008 0345 Dance Technique—Ethnic	2
I008 0441, 0442 Modern Dance Technique—Advanced I, II	2 ea.
REQUIRED TOTAL	23

Students will be placed according to present skill. A student may be required to take Introduction to Dance before beginning his/her sequence.

Bachelor of Arts
Concentration in Theater

Requirements

Semester Hours

I 1007 0122	Acting I	
I 1007 0211	Theater History: Restoration to Modern	
I 1007 0210	Theater History: Classical to Restoration	
I 1007 0330	Directing I	
I 1007 0201	Practicum in Costuming	0
0202	Practicum in Construction	0
0203	Practicum in Management	0
0204	Practicum in Lighting	0
	Practicum (Free Choice)	0
	Practicum (Free Choice)	0
I 1007 0150	Technical Theater I	
I 1007 0363	Reader's Theater	
I 1007 0208	Playscript Interpretation	
I 1007 0361	Dramatic Literature	
I 1007 0415	Modern Production Theory	
I 1007 0416	Modern Dramatic Theory	
I 1007 0410	Seminar in Drama	
I 1007 0411	Dramatic Criticism	
I 1007 0403	Independent Study	
I 1007 0495	Thesis	

REQUIRED TOTAL

Collateral Requirements

H 1015 0100	Introduction to Music
K 1501 0260	Myth and Literature
K 1501 0240	English Literature to 17th Century
K 1501 0241	English Literature to Present
K 1501 0353	Shakespeare: Comedies and Histories
K 1501 0354	Shakespeare: Tragedies and Romances
K 1501 0173	Eastern World Literature
	Electives

Students planning graduate work in theater are urged to take 6 hours of free electives in French or German.

Concentration in Communication Theory and Practice

I 1007 0122	Acting I
I 1506 0234	Fundamentals of Public Speaking
I 1506 0438	Seminar in Persuasion and Social Control
I 1506 0441	Group Discussion and Leadership or
I 1506 0442	Argumentation and Debate
I 1506 0271	Interpersonal Communication I
I 1506 0272	Interpersonal Communication II
I 1506 0334	Contemporary Public Address
I 1506 0374	Group Processes
I 1506 0375	Nonverbal Communication
I 1506 0475	Seminar in Communication Theory

REQUIRED TOTAL

Concentration in Teacher Certification

I 1506 0104	Phonetic Study of Speech Sounds
I 1007 0122	Acting I
I 1007 0150	Technical Theater I
I 1506 0160	Oral Interpretation of Literature
I 1007 0201, 0202, 0203	Theater Practicum
I 1506 0234	Fundamentals of Public Speaking

I 1506 0302	Speech Improvement Practicum	3
I 1007 0330	Play Direction I	3
I 1007 0410	Theater History: Classical to Restoration	3
I 1506 0441	Group Discussion and Leadership	3
	REQUIRED TOTAL	29

Bachelor of Fine Arts—Acting/Directing*

I 1007 0330	Play Direction I	3
I 1007 0122	Acting I	3
I 1007 0201, 202, 203	Theater Practicum	3-4
I 1007 0123	Acting II	3
I 1007 0323	Voice for the Performer	2
I 1007 0208	Playscript Interpretation	3
I 1007 0150	Technical Theater I	3
I 1007 0222	Acting III	3
I 1008 0141, 0142	Modern Dance Technique Beginning I and II	4
I 1007 0210	Theater History: Classical to Restoration	3
I 1007 0211	Theater History: Restoration to Modern	3
I 1007 0278	Makeup	2
I 1007 0223	Acting IV (Character)	3
I 1007 0322	Acting V (Styles)	3
I 1007 0371	History of Costume	3
I 1007 0242	Drawing for Theater	3
I 1007 0324	Acting VI (Prof. Prep.)	3
I 1007 0430	Play Direction II	3
I 1007 0436	Dramatic Workshop II	3
I 1007 0480	Seminar Theatrical Conceptualization	3
I 1007 0490	Internship or	15
I 1007 0435	Dramatic Workshop I	3
I 1007 0403	Independent Study	3
elect Electives (9 semester hours)		
I 1007 0365, 366, 367	Stage Technique: Dance, Combat, Mime	3
I 1007 0368	Dialects	3
I 1007 0369	Dramatic Verse	3
I 1007 0438	Musical Comedy	3
I 1007 0391	Playwriting	3
I 1007 0433	Shakespeare Workshop	3
I 1007 0431	Play Direction III	3
I 1007 0465	History of Design and Physical Theater	3

Bachelor of Fine Arts—Design and Technical Theater*

I 007 0150	Technical Theater I	3
I 007 0122	Acting I	3
I 007 0208	Play Script Interpretation	3
I 007 0242	Drawing for the Theater	2
I 007 0210	Theater History: Classical to Restoration	3
I 007 0211	Theater History: Restoration to Modern	3
I 007 0201, 202, 203	Theater Practicum	6
I 007 0278	Makeup	2
I 007 0245	Drafting for the Theater	3
I 007 0340	Theatrical Design	3
I 007 0455	Fundamentals of Stage Lighting	3
I 007 0250	Technical Theater II	3
I 007 0345	Stage Design	3
I 007 0371	History of Costume	3
I 007 0330	Play Direction I	3
I 007 0234	History of Decor	3
I 007 0346	Stage Design II	3

I 1007 0372	Introduction to Costuming	
I 1007 0403	Independent Study or	
I 1007 0490	Internship	
I 1007 0465	History of Design and Physical Theater	
I 1007 0370	Costume Construction	
I 1007 0475	Advanced Problems in Costume Design or	
I 1007 0458	Advanced Lighting	
I 1007 0480	Seminar in Theatrical Conceptualization	
I 1007 0381	Theater Administration and Audience Development	

*Students must be interviewed and auditioned for admission.

REQUIRED TOTAL

Speech and Theater Course Descriptions

I 0603 0101 Introduction to the Broadcasting Medium

The development, organization and operation of radio and television in modern society, social and cultural influence of commercial and educational broadcasting. 3 s

I 0603 0221 Radio Practicum

Practice in radio skills acquired in the classroom and in radio operation. This course may be repeated. Prerequisites: I 1506 0100 or 0103, I 1506 0123, I 0603 0251 1 s

I 0603 0222 Television Practicum

Closed circuit television production. Students participate in a minimum of 7 of the 14 weekly sessions. May be repeated. 1 s

Prerequisites: I 0603 0251 or I 0603 0252 or I 0603 0350

I 0603 0240 Writing for Broadcasting Media

Styles and forms involved in non-dramatic program writing for the media. Preparation of scripts for sports, news, talk and documentary programs. 3

Prerequisite: I 0603 0101

I 0603 0251 Radio & Television Production I

The tools and techniques of television production applied to news, commercial, interview and demonstration programs. 3

Prerequisite: I 0603 0101

I 0603 0252 Television Production II

Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising. The use of education school broadcasting. 3

Prerequisite: I 0603 0251

I 0603 0253 Radio Production II

The production of radio drama, documentaries and actualities, including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing. 3

Prerequisites: I 0603 0101, I 0603 0251

I 0603 0280 Elements of the Public Media

Broadcasting theory concentrating on the four controlling elements. The physical nature of broadcasting media, historical background, economic constraints and the problems of social control. 3

I 0603 0311 Electronic Journalism

Practical training in gathering, writing, and producing news for radio and television. Development of ethical electronic journalistic standards and practices as reflected by major social issues. 3

Prerequisites: I 0603 0240, I 0603 0252

I 0603 0315 Political Television & Radio

An historical-critical introduction to radio and TV as related to political figures, institutions and issues. J.L. Lewis, F.D.R., McCarthy hearings, Nixon-Kennedy debates and political conventions. 3

I 0603 0350 Television Production III

Two television productions written, produced and directed. Production and direction of remote broadcasts.

3 s.h.

Prerequisites: I 0603 0101, I 0603 0251, I 0603 0252

0603 0353 Children's Television

Current children's productions and examination of research on their affect/effectiveness. Work on class productions designed for children.

3 s.h.

Prerequisites: I 0603 0101, I 0603 0251

I 0603 0380 Cultural Impact-Broadcasting

Examination of the ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can effect mass culture.

3 s.h.

I 0603 0403 Independent Study

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1-3 s.h.

I 0603 0460 Station Management

Economic support patterns, evolution of broadcast programming. Determining community needs, on-air operations, station promotion and advertising, legal and ethical questions relating to broadcasting.

Prerequisites: I 0603 0101, I 0603 0251, I 0603 0252

3 s.h.

0603 0465 Radio-Television Arts Activity

Credit is awarded for some supervisory radio and television arts activity, such as writing broadcasting scripts, directing and/or producing a series of radio or television programs, etc. Enrollment by permission of the department chairman only.

1-3 s.h.

0603 0470 Special Studies in Broadcasting

To acquaint students with theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry, as provided by practicing professionals in the field. This course may be repeated for credit.

3 s.h.

Prerequisite: I 0603 0252 Majors only, instructor's permission

0603 0490 Internship in Broadcasting

Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, music, speech or media center or program. Departmental eligibility and approval must be secured by mid-point of the semester preceding registration.

Credit by arrangement.

Prerequisite: Instructor's permission

0603 0491 International Broadcasting

Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy. Voice of America, Radio-Free Europe, Missionary Radio and Group listening and viewing systems.

3 s.h.

Prerequisite: I 0603 0101

1107 0100 Intro to Theatrical Medium

Forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.

3 s.h.

1107 0120 Movement for the Theater

Uninhibited movement for the actor and others in music, dance and mime. Exploring and developing fictional and expressive movement.

2 s.h.

1107 0122 Acting I

Basic techniques of theatrical communication involving one's self completely, doing and experiencing inwardly. Deepening the personal involvement and significance of actions. Improvisation and exercises in perception, self-awareness and justification.

3 s.h.

I 1007 0123 Acting II

Extension of the actor's self into characterization. Learning to physicalize, or externalize, the psychological elements of a character so that they are projected to an audience. Script analysis, in which the student develops the discipline of using clues in the script to fulfill the author's intentions. Work on scenes, applying the foregoing techniques.

Prerequisite: I 1007 0122 Crs. in similar field

3 s.h.

I 1007 0150 Technical Theater I

The production concept from the designer's approach through a correlation of related arts to the final production. Emphasis on correlation of scenic and lighting designs.

3 s.h.

I 1007 0201 Theater Practicum I

On or off-stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.

I 1007 0202 Theater Practicum II

On or off-stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.

I 1007 0203 Theater Practicum III

On or off stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.

I 1007 0204 Theater Practicum IV

On or off stage experience in departmental productions, registered through department only. May be repeated.

1/2 s.

I 1007 0208 Playscript Interpretation

An evaluation of the playscript in terms of the literary, technical, and production elements essential to mounting a script for performance. A consideration of both the fictional and the functional elements of playscripts.

3 s.

I 1007 0210 Theatrical History: Classical to Elizabethan

The development of the theater from the classical Greek through the Elizabethan period. Attention given to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations; class reports, lectures and demonstrations.

3 s.

I 1007 0211 Theater History: Restoration to Modern

The development of the theater from the Restoration through the Modern period. Attention on plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period; class reports, lectures and demonstrations.

3 s.

I 1007 0222 Acting III

Strengthening the actor's controls and extending his boundaries, more challenging roles; period plays and the problem of style.

3 s.

Prerequisites: I 1007 0122, I 1007 0123 or permission of instructor.

I 1007 0223 Acting IV (Character)

Extending the range of characterization by modifying and controlling physical and vocal characteristics and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments application in scenes.

3 s.

Prerequisite: I 1007 0222 or permission of instructor.

I 1007 0234 History of Decor

The major architectural and decorative periods of the world and their influences and role in the theater as applied to the designer.

3 s.

I 1007 0242 Drawing and Rendering Techniques for Theater

Drafting techniques for theatrical designs, basic projective techniques, color harmony and perspective. Preparation for Technical Theater II or theatrical design for students without prior experience.

2 s.

I 1007 0245 Drafting for the Theater

Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations, the use of different building techniques, materials and structures.

3 s.h.

Prerequisite: I 1007 0150

I 1007 0250 Technical Theater II

The methods of realizing theatrical design including construction, scene painting and the use of theatrical and plant lighting.

3 s.h.

Prerequisite: I 1007 0150 or instructor's permission

I 1007 0278 Stage Makeup

Makeup materials and their potential uses, creating corrective and character makeup, mustaches and beards for an entire cast. Research or creative experience to compile a practical resource file.

2 s.h.

I 1007 0300 American Theater History: Pioneer to Present

The historical development of the American Theater in terms of production and stage history from the landing of the Hallum Troup, Inc., 1752 to the present.

3 s.h.

I 1007 0320 Dance for the Theater

Basic skills in various theater forms, choreographic techniques applied to selected theatrical problems, dance in musical comedy, entr'acte, processions, fight scenes, period plays and dream sequences.

2 s.h.

I 1007 0322 Acting V (Styles)

Emphasis upon movement, decorum, costuming, and the theatrical environment of each major period of theater history. Students will be involved in scene study for each period of theater history. Special lectures by costuming and movement specialists.

3 s.h.

Prerequisites: I 1007 0222, I 1007 0223

I 1007 0323 Voice for the Performer

The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.

2 s.h.

Prerequisites: I 1007 0122, I 1506 0103, I 1506 0160

1007 0324 The Profession of Acting (Acting VI)

Consideration of the artistic and commercial demands of the professional theater and preparation to meet those demands.

3 s.h.

Prerequisite: junior or senior theater major

1007 0330 Play Direction I

Principles of direction, selection and casting exercises in composition and movement. Scenes directed for class criticism. Preparation of prompt book.

3 s.h.

Prerequisites: I 1007 0122, I 1007 0150

1007 0340 Theatrical Design

Visual design in the theatrical medium, execution of actual designs, stressing originality within given stylistic concepts.

3 s.h.

Prerequisite: I 1007 0150 or Instructor's permission

1007 0345 Stage Design

Stage design for the theater. Students design scenery for realistic and non-realistic drama styles, providing experience in various styles of rendering, model making, artistic and technical principles of design.

3 s.h.

Prerequisites: I 1007 0150, I 1007 0340, I 1007 0242

1007 0352 Scene Painting

The theory and practice of the general techniques of the scenic artist, and the methods and materials used in his discipline.

2 s.h.

Prerequisites: I 1007 0150, I 1007 0242

I 1007 0357 Opera Workshop

The literature and performance problems of opera approached through rehearsal and production of representative excerpts in English. Stage movement, diction and stylistic modes of presentation. An interdepartmental offering open to all students held concurrently with 1004 0034, 0035. Non-singer must obtain approval from the instructor. Singers and pianists must audition for roles. Juniors and seniors only.

2 s.h

I 1007 0360 Creative Dramatics

Principles and techniques of creative dramatics as applied in classroom, theater and speech therapy programs paralleling the mental, physical and emotional levels of children. Student participation in planning and presenting demonstrations with children.

2 s.h

I 1007 0365 Stage Technique Dance

Dance encountered in period plays, including the galliard, pavane, minuet and other Elizabethan, Jacobean, Georgian and 19th century dances (generally offered as one of three modules with 1007 0366 and 0367).

1 s.t

Prerequisites: I 1007 0122, I 1007 0222

I 1007 0366 Stage Technique Combat

Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, épée, cudgel and staff, among others (generally offered as one of three modules with 1007 0365 and 0367).

1 s.t

Prerequisites: I 1007 0122, I 1007 0222

I 1007 0367 Stage Technique Mime

Fundamentals of the art of classic mime including basic body controls and movements (generally offered as one of three modules with 1007 0365 and 0366).

1 s.t

Prerequisites: I 1007 0122, I 1007 0222

I 1007 0370 Costume Construction

Constructing costumes and accessories for the stage techniques of cutting and sewing clothing. Selection of fabrics in terms of weight, texture, color and drape. Lecture and workshop.

3 s.

I 1007 0371 History of Costumes

The evolution of costume and the development of tailoring. Social, economic and political influences on silhouette and ornamentation. For advanced students of costume design or construction.

3 s.

Prerequisite: I 1007 0372

I 1007 0372 Introduction to Costuming for the Stage

Physical and aesthetic requirements of the actor, director and designer. The history of clothing and its application to stage costumes. Construction projects, lecture and discussion.

3 s

I 1007 0381 Theater Administration and Audience Development

The initiation, development and continuing operation of theatrical enterprise including methods of finance, budget and contract and methods of audience research and development.

3 s

Prerequisites: I 1007 0100, I 1007 0122, I 1007 0150

I 1007 0391 Playwriting

The creation of an original playable script suitable for production. The cause to effect play will be investigated as well as newer trends in theater. Investigation of marketing possibilities and preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theater.

3

I 1007 0403 Independent Study

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1 to 3

I 1007 0407 Summer Theater Production—Technical

Practical experience as a member of a professional, semi-professional or educational theater on or off campus. Work as a technician or as an assistant to the designer or producer.

1-7

Prerequisite: Instructor's permission

I 1007 0408 Theatrical Experience: The Informed Audience

Attendance at a series of live performances on and/or off campus after preliminary investigation and discussion with the group leader. Follow-up in-person sessions with the play's production team permits an examination of the several talents, methods and contributions of the playwright, director, designer, actor, technician and producer. Designed for both the casual theater-goer and the theater major.

3 s.h.

I 1007 0409 Summer Theater Production—Acting

Practical experience as a member of a professional, semi-professional, or educational theater on or off-campus. The student works as an actor, or as an assistant to the director, designer or producer.

Prerequisite: admission by department approval. 1-7 s.h.

1007 0410 Seminar in Drama

Dramatic theory as it relates to production and performance. A series of research projects selected by the instructor to guide students in applying contemporary principles of play production to styles of performance. Comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.

3 s.h.

Prerequisite: survey of Dramatic Literature

1007 0411 Dramatic Criticism

Dramatic principles of theme, content, and characterization as they relate to production and performance. Evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.

3 s.h.

Prerequisite: survey of Dramatic Literature

1007 0430 Play Direction II

Advanced play direction with emphasis on the director's analysis of the script and working with performers. Each participant will direct a variety of scenes and a one-act play.

3 s.h.

Prerequisites: I 1007 0123, I 1007 0330

1007 0431 Play Direction III

Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.

3 s.h.

Prerequisites: I 1007 0222, I 1007 0330, I 1007 0430

1007 0433 Shakespeare Workshop

Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.

3 s.h.

Prerequisites: I 1007 0122, I 1007 0123, I 1007 0223, 0233 and 0330

1007 0435 Dramatic Workshop

An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theater in a works-in-progress atmosphere. Material will be drawn from the full spectrum of theater.

3 s.h.

Prerequisite: CRS in similar field

I 1007 0436 Dramatic Workshop II

Continuation of dramatic workshop providing advanced research, exploration and performance for acting-directing. Experimentation with various modes such as readers' theater, story theater and environmental theater. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.

3 s.h.

Prerequisites: two courses in directing and/or acting. CRS is similar field.

I 1007 0438 Producing the Musical Comedy

Production styles, techniques and dramatic conventions used in the musical theater in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.

3 s.h.

Prerequisites: I 1007 0150, I 1007 0330

I 1007 0445 Advanced Stage Design

Advanced scene design skills with particular attention to design in non-proscenium production.

3 s.h.

Prerequisites: I 1007 0150, I 1007 0242

I 1007 0455 Fundamentals of Stage Lighting

The functions of light on stage, the use of lighting equipment. Laboratory work done in the Memorial Auditorium.

3 s.l

Prerequisites: I 1007 0150, I 1007 0250 or instructor's permission

I 1007 0456 Advanced Stage Lighting

The types of theatrical light, design and styles of lighting required for lighting the comedy, tragedy, musical comedy and dance. Emphasis on the workability of the design.

3 s.

Prerequisites: I 1007 0150, I 1007 0455

I 1007 0457 Opera Workshop

The literature and performance problems of opera approached through rehearsal and production representative excerpts in English. Stage movement, diction and stylistic modes of presentation. A interdepartmental offering open to all students held concurrently with 1004 0034, 0035. Non-singers must obtain approval from the instructor. Singers and pianists must audition for roles. Juniors and seniors only.

2 s

I 1007 0458 Advanced Lighting

Advanced lighting skills in theater and the related areas of dance, opera and the musical comedy.

Prerequisites: I 1007 0150, I 1007 0345, I 1007 0250, I 1007 0340, I 1007 0455

3 s

I 1007 0460 Advanced Creative Dramatics the Arts in Teaching

Arousing and directing creative abilities in students assisting other teachers in applying dramatic music, art and dance in presentation of various subjects.

3 s

Prerequisite: I 1007 0360

I 1007 0470 History of Costumes

The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design and construction.

3 s

Prerequisite: I 1007 0270

I 1007 0475 Advanced Problems in Costume Design

Costume design for theater, opera, dance and film. Students design costumes for each medium with emphasis on the various styles and problems.

3

Prerequisites: I 1007 0270, I 1007 0370, I 1007 0470

I 1007 0478 Stage Makeup Seminar

A demonstration laboratory in planning and executing corrective middle-age, old age, stylized and other creations. Three-dimensional makeup with crepe hair, latex, putty and dermawax makeup; critical supervision.

3

Prerequisite: I 1007 0278 Instructor's permission

I 1007 0490 Internship in Theater

Upper-class undergraduate students may pursue a major portion of a semester work under supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center or program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.

4-16

Prerequisite: Instructor's permission

I 1007 0495 Thesis—(Senior)

Senior project in an area of student's primary field of specialization; theater history, dramatic literature, criticism or performance theory. Requires intensive research project demonstrating the student's ability to apply the theories and principles revealed by his project to performance or production.

3

Prerequisites: senior standing, instructor's permission

I 1008 0100 Man His Body And Its Expression

The physical body, mind-body relationship, the meaning of body structure and movement in relationship to non-verbal communication.

2 h

I 1008 0101 Movement and Rhythm

Develops capacity for natural, coordinated movement. The student discovers basic locomotor and non-locomotor movements.

1 h

I 1008 0110 Movement Analysis

Through lecture, discussion, and lab, the course focus will be on basic body mechanics and dance movements with emphasis on body tension, muscle, awareness, postural alignment, and relaxation.
3 s.h.

I 1008 0141 Modern Dance Technique Begin I

Introduction to modern dance techniques and composition developmental exercises the relationship to movement and sound and space patterns.
2 s.h.

Prerequisite: Taken serially.

I 1008 0142 Modern Dance Technique Begin II

A continuation of Modern Dance Technique Beginning I
2 s.h.

Prerequisite: I 1008 0141

I 1008 0143 Modern Dance Technique Beginning I (Extended)

Designed for the student who has completed 1008 0141 but needs more skill development before proceeding to 1008 0142.
2 s.h.

Prerequisite: I 1008 0141, Instructor's permission

I 1008 0144 Modern Dance Technique Beginning II (Extended)

Designed for the student who has completed 1008 0142 but needs more skill development before proceeding to 1008 0241.
2 s.h.

Prerequisite: I 1008 0142

I 1008 0161 Choreography Beginning

Dance choreography in the traditional idiom with emphasis on the elements of dance composition.
2 s.h.

I 1008 0201 Advanced Movement & Rhythm

Intense study of the rhythmic structure of movement; given with the use of percussion instruments.
1 s.h.

I 1008 0210 History of Dance

Dance as it has developed from primitive religious and ritualistic movement to its contemporary place in society.
2 s.h.

I 1008 0230 Creative Dance for Children

Teaching materials, movement exercises and games simple folk and singing games and percussion activities for teaching creative movement and rhythmic activities to children.
2 s.h.

Prerequisites: I 1008 0142, I 1008 0161

I 1008 0233 Dance and Sculpture

The concepts of space, form and energy in relation to sculpture and dance. The cultural conditioning of attitudes about space, form and use of energy.
3 s.h.

I 1008 0240 Modern Dance

An introduction to the techniques and composition of modern dance, developmental exercises, the relationship of movement and sound patterns, and group improvisation as a means of approaching dance composition.
1 s.h.

I 1008 0241 Modern Dance Technique—Intermediate I

A wide range of movement techniques and dance form styles; style and personality; group improvisations as approaches to dance composition. Intermediate dance taken serially.
2 s.h.

Prerequisite: I 1008 0112

I 1008 0242 Modern Dance Technique Intermediate II

A continuation of Modern Dance Technique Intermediate I.
2 s.h.

Prerequisite: I 1008 0241

I 1008 0243 Modern Dance Technique Intermediate I (Extended)

Designed for the student who has completed 1008 0241 but needs more skill development before proceeding to 1008 0242.
2 s.h.

Prerequisite: I 1008 0241

I 1008 0244 Modern Dance Technique Intermediate II (Extended)

Designed for the student who has completed 1008 0242 but needs more skill development before proceeding to 1008 0441.

Prerequisite: I 1008 0242

2 s.h.

I 1008 0253 Dance Technique Jazz I

An introduction to jazz technique emphasis on style and the rhythmic aspects of jazz as a performing art.

2 s.l.

Prerequisite: 2 s.h. of modern dance, jazz technique taken serially.

I 1008 0254 Dance Technique Jazz II

A continuation of Dance Technique Jazz I.

2 s.h.

Prerequisite: I 1008 0253

I 1008 0255 Jazz I Extended

Designed for the student who has completed 1008 253 but needs more skill development before proceeding to 1008 0254.

2 s.h.

Prerequisite: I 1008 0253

I 1008 0256 Jazz II Extended

Designed for the student who has completed 1008 254 but needs more skill development before proceeding to more advanced work.

2 s.h.

Prerequisite: I 1008 0254

I 1008 0261 Dance Choreography II

Dance choreography with emphasis on small group works and solos.

2 s.h.

Prerequisite: I 1008 0161

I 1008 0265 Dance Improvisation

Basic skills and problems in dance improvisation. No previous improvisational experience necessary as may be taken by a dancer at any technical level.

2 s.h.

I 1008 0266 Dance Improvisation II

A continuation of Dance Improvisation I.

2 s.h.

Prerequisite: Concurrent enrollment in a techniques course. I 1008 0265

I 1008 0280 Dance Practicum

Practical work in dance production dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filled prior to registration in the course. May be taken more than once.

1/2 s.h.

Prerequisite: Instructor's permission

I 1008 0325 Method-Materials-Teach Dance

Theory, methods and materials for the teaching of dance and movement, pre-school through high school lesson planning, unit planning and curriculum development.

2 s.h.

Prerequisites: I 1008 0142, I 1008 0242, I 1008 0161

I 1008 0333 Dance & The City

How experiences in the city affect attitudes, body structure, ability to move. Community movement patterns as seen in ceremonies, rituals, parades, festivals, folk dancing, and the like. Some attention will be given to the present and future needs of our cities for shared movement experiences.

3 s.h.

I 1008 0345 Dance Technique Ethnic

The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. This course may be taken more than once.

2 s.h.

I 1008 0351 Dance Technique Ballet I

An introduction to ballet technique.

2 s.h.

Prerequisite: CRS in similar field, instructor's permission

I 1008 0352 Dance Technique Ballet II

A continuation of Dance Technique—Ballet I.

2 s.h.

Prerequisite: I 1008 0351, instructor's permission

I 1008 0353 Dance Technique Ballet III

Advanced technique forms with presentations by authorities from various ballet schools.

2 s.h.

Prerequisite: I 1008 0352, instructor's permission

I 1008 0354 Ballet I Extended

Designed for the student who has completed 1008 351 but needs more skill development before proceeding to 1008 352.

2 s.h.

Prerequisite: I 1008 0351

I 1008 0355 Ballet II Extended

Designed for the student who has completed 1008 352 but needs more skill development before proceeding to 1008 353.

2 s.h.

Prerequisite: I 1008 0352

I 1008 0403 Independent Study

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

1 to 3 s.h.

I 1008 0441 Modern Dance Technique—Advanced I

Advanced dance forms with presentations by authorities from the Graham and Nikolais schools among others.

2 s.h.

Prerequisite: 6 s.h. of modern dance; by audition only; work in field

I 1008 0442 Modern Dance Technique—Advanced II

A continuation of Modern Dance Technique—Advanced I.

2 s.h.

Prerequisite: by audition only; instructor's permission

I 1008 0443 Modern Dance Technique Advanced I (Extended)

Designed for the student who has completed 1008 0441 but needs more skill development before proceeding to 1008 0442.

2 s.h.

Prerequisite: I 1008 0441

I 1008 0473 Dance Therapy

Dance as therapy. Reaching the emotionally disturbed or tense child on a non-verbal level. Relaxation through dance experiences.

2 s.h.

Prerequisite: Instructor's permission

I 1008 0480 Dance Production

Responsibilities of the dancer, choreographer, artistic director, musician and technician in dance production practical group experience.

2-3 s.h.

Prerequisite: I 1008 0161, CRS in similar field

I 1008 0485 Dance Repertoire

Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. More than one semester of work may be involved.

3-7 s.h.

Prerequisite: By audition.

I 1008 0490 Internship in Dance

Upper class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in active, successful dance activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

4-16 s.h.

Prerequisite: Instructor's permission

I 1008 1403 Independent Study

Projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

2 s.h.

I 1506 0100 Fundamentals of Speech Teacher Certification

Practical opportunities in a variety of speaking situations with special emphasis on teaching oriented activities, emphasis on organizing and clarifying ideas, critical listening skills, development of poise and

confidence and effect in communication. Speech lab help as needed. Designed for students enrolled in a teacher certification program. 3 s.h.

I 1506 0101 Fundamentals of Speech: Comm. Requirement

Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the speech lab. Designed for students not enrolled in a teacher certification program. Satisfies the communication requirement. 3 s.h.

I 1506 0102 Basic Speech Skills

Basic skills training in the effective oral communication of ideas and feelings. Developmental skills stressed. Speech lab provided as needed. Satisfies the communication requirement. Admission by departmental approval only. 3 s.h.

I 1506 0103 Voice & Speech Improvement

Development of voice and speech techniques and elimination of faults. Procedures for improving voice and speech patterns. For speech and theater majors and minors. Others by consent of the instructor.

3 s.h.

I 1506 0104 Phonetic Study of Speech Sound

The manner and place of articulation heard in American English, use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices, intonation and stress patterns of spoken English. 3 s.h.

I 1506 0105 Voice and Speech Improvement for Students with Foreign Speech Patterns I

Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences. Evaluation of progressive speaking and reading skills. For students requiring intensive training in English as a second language. 3 s.h.

I 1506 0106 Voice and Speech Improvement for Students with Foreign Speech Patterns II

A continuation of Voice and Speech Improvement for Students With Foreign SPEech Patterns I. Provides for extended practice and skill development. 3 s.h.

Prerequisite: I 1506 0105

I 1506 0160 Oral Interpretation of Literature

Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory. 3 s.h.

I 1506 0234 Fundamentals of Public Speaking

Preparing and delivering effective, informative, persuasive and entertaining speeches, addressing the class, entering into formal critiques and moderating one program. 3 s.h.

I 1506 0235 Oral Interpretation of Drama

Performance of selected playscripts employing the techniques of the oral interpreter and the actor. Analysis of playscripts and scene study as applied to developing character and movement. 3 s.h.

Prerequisite: I 1506 0160 or instructor's permission

I 1506 0271 Interpersonal Communication I

Basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations. Personal communication patterns as they affect self-perception and the perception of others. 3 s.h.

I 1506 0272 Interpersonal Communication II

Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of the class. 3 s.h.

Prerequisite: I 1506 0271

I 1506 0302 Practicum in Speech Improvement

Evaluation, etiology and remedial techniques for minor voice and diction problems common to general school population; self-motivating materials for junior high and high school. For all Speech Theater majors planning to teach. Three class hours plus one hour for observation and practice.

Prerequisites: I 1506 0103, I 1506 0104, I 1506 0160, I 1506 0234, CRS in similar field

3 s.

I 1506 0331 Public Speak-Rhetorical Approach

Modern speech practice approached through classical rhetorical theory. Primary sources and definitive contemporary works, analytical study of representative speeches. Some opportunity to apply theory.

3 s.h.

I 1506 0334 Contemporary Public Address

Contemporary styles of speaking relating to current issues and events. Primary focus on television/radio styles of announcing. Work to develop flexibility in using the various styles.

3 s.h.

I 1506 0360 Advanced Oral Interpretation of Literature

Performance of selected styles, genres and periods of literature. Specialized skills of oral interpretation.

Prerequisite: I 1506 0160

3 s.h.

I 1506 0363 Readers Theatre

The close union of interpretation of literature and theater. Adaptation and editing of the various genres of literature. Participation in public performances of readers theater.

3 s.h.

Prerequisites: I 1506 0160, I 1007 0122

I 1506 0364 Advanced Readers Theater

Principles of Readers Theater for public performance; intensive application of performance technique related to the interpretation of prose, poetry, and the novel.

3 s.h.

Prerequisites: I 1506 0160 or I 1506 0363

I 1506 0374 Group Processes

The affective domain of a group's function. Variables like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.

3 s.h.

Prerequisite: I 1506 0271

I 1506 0375 Non-Verbal Communication

Non-linguistic system on the communication experience. Effects of such non-verbal aspects (physical behavior, spatial relationships, context, environment, etc.), upon the sending and receiving of verbal messages.

3 s.h.

Prerequisites: I 1506 0271, I 1007 0122, I 1506 0374

I 1506 0402 Advanced Speech Practicum

More intensive, supervised practice in the improvement of voice and speech patterns in the college speech laboratory and with foreign student practice groups. Two hours of lab and one hour of seminar each week.

2 s.h.

Prerequisite: I 1506 0302 Instructor's permission

I 1506 0403 Independent Study

Projects pursuing individual needs. The proposals must be submitted for departmental approval prior to registration for the course.

1-3 s.h.

I 1506 0407 Methods of Teaching Speech Theater

Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields.

3 s.h.

Prerequisite: majors only, instructor's permission

I 1506 0414 History of British Public Address

Survey beginning with the Cromwellian period and continuing through World War II. The times, issues and speakers.

3 s.h.

I 1506 0415 History of American Public Address

Leading speakers from colonial times to the present emphasizing the speaker's role in the course of American history.

3 s.h.

I 1506 0435 Speech Arts Activity

Credit is given for supervised Speech Arts activity. Consent of department chairman required. Credit by arrangement.

1-3 s.h.

I 1506 0438 Seminar in Persuasion and Social Control

Uses and applications of persuasion in various fields of social activity. Mass media in education
business, religion and politics. 3 s.l.

Prerequisite: I 1506 0234

I 1506 0441 Group Discussion & Leadership

Principles of small group discussion with a task-problem solving orientation. Leading and participation
in private and public discussions. Introduction to parliamentary procedure. 3 s.l.

I 1506 0442 Argumentation and Debate

Principles of argumentation, characteristics of propositions, definitions of terms, logical organization
evidence, research and oral techniques, structure of tournament debating, practice in argumentation and
debate of current significant issues. 3 s.l.

I 1506 0461 Choral Speaking

Interpreting literature through a speaking choir, materials suitable for group reading, the application of
this form at various grade levels. Preparation of selections suited to the student's interest. 2 s.l.

I 1506 0478 Seminar-Communication Theory

A synthesis of communication theory designed to present a unified perspective of the discipline.

Prerequisite: All courses required for the Communication Theory student. 3 s.l.

I 1506 0490 Internship in Speech Communications

Upper-class undergraduate students may pursue a major portion of a semester's work under the
supervision of an experienced professional practitioner as an assistant in active, successful speech
activity. Departmental eligibility and approval must be secured by the mid-point of the semester
preceding registration. 4 to 16 s.l.

Prerequisite: Instructor's permission

I 1506 1403 Independent Study

2 s.l.



School of Humanities

W. Bernard Fleischmann, Ph.D., Dean

Academic Advisors: Ruben C. Arango, M.A., Peter M. Donovan, M.A.

The School of Humanities includes the Departments of Classics, English, French, German and Russian, Linguistics, Spanish and Italian, and Philosophy and Religion. It was formally established by Board of Trustees action in January of 1970 and ratified its constitution which allows for student-faculty governance at all levels, in September of that year.

Three aims are central to the School's concern: to provide concentrations in the various disciplines through specialized training, to accommodate students' interdisciplinary interest, and to offer the College as a whole those learning opportunities associated with humanistic studies.

Toward the fulfillment of these aims, curricular revision is in progress. For the potential specialist or teacher, major programs in incorporated departments will continue and have been augmented, as is the case for majors in general humanities, Italian language and literature, and linguistics. In most disciplinary majors, course options have been considerably broadened (see individual department entries, below).

Every department in the School is concerned with presenting its discipline in exciting ways for purposes of general education. New courses of foreign and Occidental literatures in translation, the planning—together with the Schools of Education and Community Services and of Social and Behavioral Sciences—of a major program in Latin American studies (see program in transcultural studies, School of Social and Behavioral Sciences) and literature courses in the Afro-Asian field are cases in point.

The School occupies Partridge Hall, a modern classrooms and faculty office facility. The building permits the dean and a faculty of over 100 to be housed in close proximity to student and faculty lounges and classrooms. Both the **Montclarion** and **Quarterly** are advised by the School of Humanities faculty.

Program in General Humanities

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, the alternative ways in which man has seen him/herself in the past and sees him/herself today. In their concern for the articulation of an authentically human way of being, such studies function as a critical agent of those approaches which tend to dehumanize man. Among social, scientific, philosophical and religious studies, in literary and artistic expressions, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

Since the perspective of the humanities is interdisciplinary, the program is transdepartmental, its faculty selected from the many disciplines which share this common concern. In order to assure this perspective, the program is supervised by a committee with representation from areas of literature, language, philosophy, religion, the arts, the social sciences, history, mathematics and science.

The program has been designed so that, in addition to the general approaches to the matter and methodology of the Humanities in the core curriculum, the student will have the opportunity to exercise personal selectivity in planning a concentration from the total range of College offerings.

The major in general humanities is recommended for students with broad interest in liberal arts. As a double major it offers an ideal complement for major-specialization in such areas as the social sciences, history, literature, the languages, the sciences and the arts.

General Humanities Major

Semester Hours

the Core Curriculum

the Contemporary Perspectives

J 4903 0101	Man: the Contemporary Search	3
J 4903 0151	Inquiry in the Humanities	3

Historical and Transcultural Perspectives

J 4903 0201	Man: the Historical Search I	3
-------------	------------------------------------	---

J 4903 0202	Man: the Historical Search II	3
J 4903 0251	Man without Boundaries	3
Concentration		15
Each major, in cooperation with an adviser and the general humanities committee, will plan an area of concentration from the total offerings of the College. The concentration is to be humanities-oriented and interdisciplinary in structure.		
Senior Humanities Seminar		4
	REQUIRED TOTAL	34

Humanities Course Descriptions

J 4903 0101 Man: The Contemporary Search

An Interdisciplinary inquiry into the contemporary awareness of the problem of man. 3 s.h.

J 4903 0151 Seminar Inquiry in the Humanities

An introduction to the methodologies and modes of interpretation in the humanities. Students will concentrate on one contemporary problem or theme, approached from an interdisciplinary perspective 3 s.h.

J 4903 0201 Man: The Historical Search I

The contemporary problem of man, approached from an historical perspective through selective, rather than chronological, study of seminal moments from ancient to Renaissance in evolution of human consciousness of problems of being human. 3 s.h.

J 4903 0202 Man: The Historical Search II

The study of seminal moments, from Renaissance to 20th century, in the evolution of human consciousness of problems of being human. 3 s.h.

J 4903 0251 Man Without Boundaries: The Transcultural Perspective

A comparative, interdisciplinary study of the transcultural awareness of the problem of man and the human condition. 3 s.h.

J 4903 0480 Independent Study in General Humanities

Directed independent study and research in general humanities. May be elected in lieu of 4903 0499 senior humanities seminar, in years when the seminar is not being offered. 1-4 s.h.

Prerequisite: Majors only, senior standing

J 4903 0499 Senior Humanities Seminar

A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem rising from his concentration. 4 s.h.

Department of Classics

Professor: Kelly (Chairman)

Assistant Professor: Renner

Classical studies provide an excellent foundation for careers in law, diplomacy, civil service education, journalism, religious ministry, archaeology, and many other professions. The Department of Classics offers three major programs: Classics—involves study of both Greek and Latin; Latin; Latin Teacher Education—leading to teacher certification in New Jersey. By taking 18 credits in the classic department, students will achieve a minor in classics to supplement their major program.

Students majoring in history, English, philosophy, religion, linguistics, general humanities, ar history, and the modern languages will profit from a knowledge of Greek and Latin. Their familiarity with original source material will shed new light on their own specializations.

The classics department offers a variety of courses both in the original languages and in translation. Elementary courses enable the student to begin the study of Latin and Greek. The courses taught i

English are of interest to the general student and serve to fulfill the humanities component of the general education requirement. Various classics courses form part of the interdisciplinary minor programs in archaeology, women's studies, and Afro-American studies.

Classics Major

Requirements

	Semester Hours
111 1110 0101, 0112 Beginning Greek I, II	6
Two Greek Literature Courses (1110); these courses are taught in a three year cycle.	6
Four Latin Literature Courses (1109); these courses are taught in a four year cycle.	12
Three electives from other courses offered by the department (1109, 1110, or 4903).	9
REQUIRED TOTAL	33

Latin Major

Requirements

1110 0101, and 0112 Beginning Greek I and II	6
Six Latin Literature Courses (1109); these courses are taught in a four year cycle.	18
Three electives from other courses offered by the department (1109, 1110, or 4903).	9
REQUIRED TOTAL	33

Latin Major—Teacher Education

Requirements

Six Latin Literature Courses (1109); these courses are taught in a four year cycle.	18
1109-0419 Methods of Teaching Latin (or 1505-0419)	3
Four electives from other courses offered by the department (1109, 1110, or 4903). Beginning Greek is especially recommended.	12
REQUIRED TOTAL	33

Students desiring teacher certification will apply to the teacher education program in their sophomore year and will follow the professional sequence determined by the School of Education. In the Department of Classics they will also take J 1109 0419 Methods of Teaching Latin.

Minor Programs

Classics: Students will take 18 credits in the classics department. All the work may be done in classical humanities courses (J 4903) or the student may in consultation with the department chairman pursue work in the Greek or Latin languages (J 1109 and J 1110).

Latin: Students will take 18 credits in Latin language and literature (J 1109). Courses will be determined in consultation with the department chairman.

Greek: Students will take 18 credits in Greek language and literature (J 1110). Courses will be determined in consultation with the department chairman.

Second Teaching Field Latin: Two courses in language study are required, viz. Advanced Latin Grammar (J 1109 0410) and Linguistic History of the Latin Language (J 1109 0445). Students will elect six more courses from the offerings in Latin literature (J 1109).

Classics Course Descriptions

1110 0101 Beginning Greek I

The grammatical fundamentals of ancient classical Greek to prepare the student to read Greek literature. 3 s.h.

J 1110 0112 Beginning Greek II

The grammatical fundamentals of ancient classical Greek to prepare the student to read Greek literature.

3 s.l.

J 1110 0261 Greek New Testament

Selected readings in the Greek koine from the Bible.

3 s.l.

J 1110 0262 Greek Epic Poetry

Selected readings from the Iliad and/or Odyssey and the ancient summaries or other poems in the trojan cycle of the epic. Supplementary reading in translation. Study of the homeric question.

3 s.

J 1110 0310 Greek Composition

The finer points of style and grammar and an ability to handle the Greek idiom, as much as possible in a non-translation situation; readings of selected Greek literary and non-literary models.

3 s.

Prerequisite: Instructor's permission

J 1110 0351 Attic Orators

Greek history and thought from the attic orators Antiphon, Andocides, Lysias, Isocrates, Isaeus. Supplemental readings in the original or translation from Demosthenes.

3 s.

J 1110 0352 Greek Tragedy

The origin and development of this most important of all Greek genres through original readings from the major representatives of this form: Aeschylus (Persae or Prometheus Vinctus), Sophocles (Antigone or Philoctetes), Euripedes (Alcestis, Medea, Bacchae or Hippolytos.) Readings in literature translations. Attention to influences upon other literatures.

3 s

J 1110 0361 Greek Historians

Greek history and historiography through intensive but selected readings from the two major historians Herodotus and Thucydides. Supplementary readings from Xenophon's Anabasis or Hellenica. Supplementary readings in translation.

3 s

J 1110 0451 Greek Philosophers

The development of Greek philosophy from rapid readings in translation and original of pre-socratics. Emphasis on Platonic dialogues (apology, phaedo, republic) and Aristotle's essays (poetics, et al). supplementary readings in translation.

3 s

J 1110 0452 Greek Lyric Poets

Readings from the corpus of lyric, iambic and elegaic poets; development in theme, technique, metrical influences on later literatures.

3 s

J 1110 0454 Hesiod

Readings from the theogony and the works and days. Study of the Archaic period of Greek civilization. The structure and meaning of the Hesiodic literature.

3

J 1109 0101 Beginning Latin I

Introduction to the structure of the Latin language through observation of the pattern as it appears in sententiae and passages of connected reading material. Acquisition of basic language skills through practice of the patterns of the language.

3

J 1109 0112 Beginning Latin II

Introduction to the structure of the Latin language through observation of the pattern as it appears in sententiae and passages of connected reading material. Acquisition of basic language skills through practice of the patterns of the language.

3

J 1109 0121 Readings in Latin Prose & Poetry

Latin selections arranged by theme to present the development of roman history and civilization from Aeneas to Augustus; opportunity to observe the structure of the Latin language in passages of connected reading.

3

J 1109 0132 Readings in Latin Prose & Poetry

Latin selections arranged by theme to present the development of Roman history and civilization from

3

Aeneas to Augustus; opportunity to observe the structure of the Latin language in passages of connected reading. 3 s.h.

J 1109 0141 Latin Grammar

Structural presentation and review of the patterns of the Latin language with emphasis upon practice. 2 s.h.

J 1109 0152 The Epic and Vergil

Depth study of the Aeneid, Books I-VI. Readings from VII-XII.

3 s.h.

J 1109 0154 Ovid

The metamorphoses as a primary source of information about Roman religion, ritual and myth selections from Ovid's other works in original and translation; observation of his role as a model in later literature. 3 s.h.

J 1109 0209 Oral Latin

Pronunciation, phrasing, reading aloud intonation patterns in questions-answers, in conversations extracted from the authors; rhetorical devices in orations, of rhythm and meter in poetry; reading aloud as technique for comprehension; use of records and tapes. 2 s.h.

J 1109 0251 Roman Letter Writing

The public figure of the late republic and the private citizen of the Silver Age seen through the letters of Cicero and Pliny. 3 s.h.

J 1109 0252 Roman Drama

Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama. 3 s.h.

J 1109 0254 Roman Lyric Poetry

Selections from the lyrics of Catullus and Horace, with particular attention to the differences in theme, content, metrics. 3 s.h.

J 1109 0261 Roman Biography

The biography as a genre; selected passages from Sallust, Tacitus, Suetonius; contrasting these works with autobiographical evidence from the letters and excerpts of other Latin authors. 3 s.h.

J 1109 0284 Cicero and Ancient Philosophy

Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world. 3 s.h.

J 1109 0310 Latin Composition

Development of Latinity in writing practice in imitation of word choice, word order and style of Latin authors; translation of contemporary material into period Latin. 2 s.h.

J 1109 0319 Materials for Teaching Latin

Examination, evaluation and collection of audio-visual materials; a preparation of bibliographies, libraries orders, bulletin boards; guidelines for field trips, projects and the Latin Club. 2 s.h.

J 1109 0351 Roman Historians

The history of Rome through the writings of Livy and Tacitus. 3 s.h.

J 1109 0352 Roman Satire

Reading of Horace and Juvenal and discussion of the satire as a genre of reporting. 3 s.h.

J 1109 0354 The Elegy

The Roman elegiac poets, Tibullus and Propertius; the elegy as a form of poetic expression. Comparison of the elegy in Latin and English literature. 3 s.h.

J 1109 0361 Caesar: The End of The Republic

Reading from De Bello Gallico and De Bello Civili with attention to Caesar the general, the statesman, the man of letters; the turbulence attending the end of the republic. 3 s.h.

J 1109 0375 Study Abroad

Approved study-travel program at selected universities, classical sites, museums. (Also listed as J4903 175). Credit by evaluation

J 1109 0419 Methods of Teaching Latin

History of methodology, new approaches and techniques, evaluation of texts, construction of lesson plans, reviews, tests, and the development of a Latin curriculum. 3 s.l.

J 1109 0410 Advanced Latin Grammar

Descriptive analysis of Latin grammar based on generative-transformational linguistics; examples from the classical authors; practice in writing original Latin prose. 3 s.l.

J 1109 0445 Linguistic History of Latin Language

Latin and its position in the Indo-European family; the evolution from the spoken to the literary, the vulgar, to the Christian; characteristics of the periods exemplified in the language; transition features in the phonology, morphology, and syntax. 3 s.

J 1109 0451 Latin of the Middle Ages

The transition of the language from classical to romance; literature of church and state in the evolution of modern western ideas. 3 s.

J 1109 0452 Augustine

Selection from the confessions, the city of God and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman empire. 3 s.

J 1109 0454 Lucretius and Ancient Science

Reading of De Rerum Natura with study and discussion of the relation of science and philosophy antiquity; greek schools of thought and Roman interpretation of hellenistic ideas. 3 s

J 1109 0470 Senior Seminar

Independent study pursued on a theme in depth by contractual arrangement. 3 s.
Prerequisite: Instructor's permission

J 1109 0478 Advanced Latin Readings

Reading selections, in the original, representing an author, a genre, a period, or a theme complementing previous course offerings; critical reading a prime function. 2 s.

Prerequisite: Instructor's permission

Humanities Elective Course Descriptions

J 4903 0154 Ovid

The metamorphoses as a primary source of information about Roman religion, ritual and mythology; selections from Ovid's other works in original and translation; observation of his role as a model in literature. 3

J 4903 0181 Classical Archaeology

The science of evaluating a culture through observation and analysis of sites and monuments. Problems of dating, types of materials, function of buildings and decorations. Illustrated lectures, readings and discussion in addition to museum field trip. 3

J 4903 0182 English Vocabulary Classical Roots

Greek and Latin roots, prefixes, suffixes and principles of word formation give the student access to meaning and usage associated with his subject matter interest. Practical vocabulary exercises. 3

J 4903 0183 Classics In The Cultural Media

Classical motif in today's world, field trips to Newark Museum (Roman glass); Metropolitan Museum of Art, New York (Greek vases); University Museum, Philadelphia (etruscan); The Cloisters, New York (medieval); American Numismatic Society, New York. A film, play, symphony, opera or ballet available. Greek revival and Roman architectural borrowings in public and private buildings. 3

J 4903 0252 Roman Drama

Reading of comedies of Plautus and Terence with attention to the authors' influence on the development of the drama. 3

J 4903 0253 Introduction to Greek Literature

Readings in English translation from selected ancient Greek epic and lyric, drama, historiography, philosophical and scientific writings, oratory; literary forms, themes, and trends from Homer to the Hellenistic age; Greek literature as a mirror of Greek thought and civilization.

3 s.h.

J 4903 0254 Introduction to Roman Literature

Readings in English translation from selected classical roman epic, lyric, drama, satire, historiography, oratory, philosophical writings, novels; literary forms, themes, and trends from Plautus to the imperial peace; Roman literature as a mirror of Roman civilization.

3 s.h.

J 4903 0273 Epic Poetry in Classical Antiquity

The Iliad, Odyssey and Aeneid in English translation; ancient and modern literary criticism of Homer and Vergil; oral vs. literary epic; history, folklore and saga in the ancient epic; basic epic themes (man as hero, fate, man and the Gods, etc.); Homeric and Vergilian influence on subsequent literature.

3 s.h.

J 4903 0281 Greek Civilization

Greece's contribution to western civilization studied through history, literature, architecture, art and sculpture.

3 s.h.

4903 0282 Roman Civilization

Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own; the planting of Roman culture and civilization along the route of the Roman army; monuments and relics as testimony to the Roman penetration and influence.

3 s.h.

4903 0283 Greek and Roman Oratory

Oratory as a political tool; training of the orator; analysis of selected orations of Demosthenes and Cicero; influence of ancient oratory on public speaking; debate and argumentation.

3 s.h.

4903 0284 Cicero and Ancient Philosophy

Cicero's philosophical essays with special attention to Cicero's role as a transmitter of Greek philosophy to the Roman world.

3 s.h.

4903 0285 Classical Mythology

the classical myths repeated in the literature and other media of the western world. The origins of the myths studied through readings and art; interpretations of their meaning.

3 s.h.

4903 0351 The City in Antiquity

study of the development of cities and city-based civilizations in the ancient classical world; city life and the findings of archaeology; the city and the development of classical art, architecture, religion, education; ancient town planning; urban problems in antiquity: crime, pollution; overcrowding.

3 s.h.

4903 0352 Roman Satire

reading of Horace and Juvenal and discussion of the satire as a genre of reporting.

3 s.h.

4903 0375 Study Abroad

proved study-travel program at selected universities, classical sites, museums (also listed as J1109 (75). credit by evaluation

4903 0381 Africa in Classical Antiquity

the importance of Africa in the Greco-Roman world; economic, intellectual, political, and artistic contributions; blacks and ancient institutions: army, theater, sport, government, slavery; ancient attitudes toward race; famous Africans of antiquity.

3 s.h.

4903 0382 Greco-Roman Colonization

sequel to Greek civilization and Roman civilization with specialization in one geographic area: Magna Graecia, Greco-Roman Spain, Gaul, Turkey, the Balkans, Roman Britain, or Germany. Mini-courses elected singly or in combination.

1 s.h.

Prerequisites: J 4903 0281, J 4903 0282

4903 0383 Women in Antiquity

the role of women in Greek and Roman society. Classical attitudes toward sexual behavior. Women in classical mythology. Famous and liberated women of antiquity.

3 s.h.

J 4903 0384 Introduction to Roman Law

The role of law in Roman history and society, the social fabric and family structure, women and the law, slavery, agreements and contracts, legal forms, legal fictions, and the on-going development of law and social change, Roman law under Christianity and afterwards.

3 s.

J 4903 0385 Greek Tragedy

Selected plays on Aeschylus, Sophocles and Euripides read in English translation; origins of Greek drama, religion and myth in tragedy, the tragic hero, stage production, influence on modern literature.

3 s.

J 4903 0396 Ancient Historians

Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis; assessing authenticity and objectivity while discussing the art of historiography.

3 s.

J 4903 0452 Augustine

Selection from confessions, city of God and the letters; intellectual development & philosophical theological speculations of Augustine in the framework of the late Roman Empire.

3 s.

J 4903 0454 Lucretius and Ancient Science

Reading of De Rerum Natura with study and discussion of the relation of science and philosophy antiquity; Greek schools of thought and Roman interpretation of hellenistic ideas.

3 s.

J 4903 0470 Seminar in Classical Humanities.

Topic to be selected according to interest and leadership potential and developed by an interdisciplinary approach.

3

Comparative Literature Course Description

K 1503 0370 Seminar in Classical Literature

Theme selected according to interest and leadership potential and developed by an interdisciplinary approach.

3

Department of English

Professors: Dickson, Fleischmann, Hanson, Petty, Radner, Spencer

Associate Professors: Healey (Chairman), Barrett, Dell, Gordon, Jacobs, B., McGee, Meranze, Mickelson, Miller, Paul, Prosky, Rich, Roberts, Schwe

Assistant Professors: Alper, Anand, Becker, Benediktsson, Brewton, Cutler, Furr, Grieco, Jacobs, R., Khanna, Liebler, Nash, Price, Rudy, Schwart, Slocum, Steuhler, Stone

Instructors: Johnson, Lovasco

Students wishing to major in English must accumulate 33 semester hours of credit in this field distributed as follows: three s.h. in genre courses; three s.h. in linguistics; six s.h. in American literature; nine s.h. in British literature; three s.h. in comparative literature; nine s.h. in English electives. Students building a minor in English without teacher certification must accumulate 18 s.h. in the three disciplines outlined below.

English Major

Genre, select one	Semester Hrs
1501 0160 Art of Poetry
1501 0162 Art of Fiction
1501 0163 Art of Drama

Linguistics, select one			
1501 0284 The English Language	3		
1501 0384 The Grammars of English	3		
1505 1484 Metaphorical Grammar	3		
1507 0205 Advanced Writing Skills	3		
1507 0407 Critical Writing	3		
American Literature			
Two courses, each from a different period	6		
British Literature			
Three courses, each from a different period	9		
Comparative Literature, select one			
1503 0172 Western World Literature	3		
1503 0173 Eastern World Literature	3		
1501 0260 Myth and Literature	3		
4903 0299 Literature and Art in Western Culture	3		
Electives			
		REQUIRED TOTAL	33

English Minor

Genre and Linguistics (2 courses).....	6
American Literature (2 courses)	6
British Literature (2 courses)	6
	REQUIRED TOTAL

18

Students may use their electives to develop a special interest, or may distribute the 12 semester hours in whatever manner they choose among departmental areas of specialization in writing: in American, English or comparative literature; by periods; or by genre. Advisors will help the students determine a good program.

Teacher Education

Students desiring teacher certification in English must gain admission to the School of Education by meeting the requirements of that School and of the English department. Prerequisites for admission to the Teacher Preparation Program in English and current requirements in the discipline for both a first and a second teaching field certificate are posted in the English department—4th floor, Partridge Hall.

English Course Descriptions

1501 0097 Special Topics Interdisciplinary Studies

This course is specifically designed to accommodate revised program in general education. It is designated not to be taken by majors in the department. Specific titles from courses using these numbers will be included in the master course schedule on a semester-by-semester basis. 3 s.h.

1501 0098 Special Topics Public Issues and/or Social Action

This course is specifically designed to accommodate revised program in general education it is designated to be taken by majors in the department. Specific titles from courses using these numbers will be included in the master course schedule on a semester-by-semester basis. 3 s.h.

1501 0099 Special Topics Methods of Inquiry

This course is specifically designed to accommodate revised program in general education. It is designated not to be taken by majors in the department. Specific titles from courses using these numbers will be included in the master course schedule on a semester-by-semester basis. 3 s.h.

1501 0100 Writing Workshop

Tutorial instruction in basic writing and research skills, with meetings as often as required and over a period of time as may be necessary to bring a student's writing to the college communications requirement standard. 3 s.h.

K 1501 0103 Special Communications Skills

New motivational and audiovisual techniques in a program designed to help those with writing problems. Equivalent in aim to K 1501 0105.

3 s

K 1501 0105 Freshman Composition

Instruction in basic writing skills and research, frequent writing assignments and a research paper. Satisfies the communications requirement in writing.

2 s

K 1501 0106 Introduction to Literature

Reading and criticizing all forms of literature selected from different periods and cultures. Satisfies communications requirement in reading.

3 s

Prerequisites: K 1501 0105 or K 1501 0103

K 1501 0139 Literature of Social Protest in America Since 1920

Novels, dramas and poetry of protest against social injustices in the United States since World War II.

3

K 1501 0160 Art of Poetry

Problems of defining and evaluating poetry; representative discussion of selections illustrative of critical points; characteristics of different types of poetry.

3

K 1501 0161 Short Story

Short stories of nineteenth and twentieth centuries as an evolving form with human and literary values.

3

K 1501 0162 The Art of Fiction

The form and technique of representative works of fiction; close reading and discussion of the short story, the novella and the novel.

3

K 1501 0163 The Art of Drama

Ways in which man expresses himself and his community through drama as a blend of word and gesture.

3

Prerequisites: K 1501 0105 or K 1501 0106, K 1501 0107

K 1501 0216 History of Journalism in America

The tradition examined through three stages: colonial journalism, pre-Civil War, distinctively American journalism, and modern journalism itself and as affected by the development of mass media.

3 h

K 1501 0225 Early American Literature

American literature from the Puritans to Cooper, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

3 h

K 1501 0226 Literature of the American Renaissance

Moby Dick and The Scarlet Letter included among the major works of masters of the American romantic period: Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe.

3 h

K 1501 0238 Afro-American Writers

Selected works of Afro-American writers, from Phillis Wheatley through Richard Wright; the aesthetic value, the political and social background, within the context of American literary history.

3 h

K 1501 0239 Critical Trends in Twentieth Century America

Key works of modern American literature examined in the light of available critical apparatus.

3

K 1501 0240 English Literature I: Beginnings to the Seventeenth Century

A chronological study of the continuity and changes in English literature from its beginnings to the middle of the seventeenth century. Careful analysis of representative works by major and minor authors will illuminate the distinctive characteristics of each literary period and illustrate the processes of change from period to period.

3

Prerequisite: K 1501 0105 or K 1501 0106

K 1501 0241 English Literature II Restoration to the Present

Continues the chronological study of English literature from the mid-seventeenth century to the present.

3

present. May be taken independently of English Literature I, but may not be used to fulfill six-credit English literature requirement.

3 s.h.

Prerequisites: K 1501 0105, K 1501 0106, K 1501 0240

K 1501 0244 Chaucer

Troilus and Criseyde, the Canterbury Tales and some of the minor poems in Middle English. No previous language training required.

3 s.h.

K 1501 0245 Middle English Literature

The historical and social context and the relation to continental medieval traditions examined in the literature of England from 1100-1400, with minor attention to Chaucer. Where appropriate, works read in Middle English.

3 s.h.

K 1501 0246 Renaissance Literature

Major non-dramatic writers of Elizabethan and early seventeenth century England whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period. Sydney, Lyly, Nashe, Greene, Donne and Browne.

3 s.h.

K 1501 0247 The Augustan Age (18th Century English Poetry and Prose)

Study of important works of English literature 1680-1745, including poetry, criticism, essays, fiction, and drama, within the literary, cultural, social and intellectual context of the age.

3 s.h.

K 1501 0248 From Sensibility to Romanticism

Study of important works of English literature 1745-1800, including poetry, criticism, philosophical prose, fiction and drama within the literary, social, cultural and intellectual context of the age.

3 s.h.

K 1501 0254 English Drama Beginnings to 1642

From medieval origins to the closing of the theatre; miracles, mysteries, moralities through the development of Tudor and Stuart theatre—exclusive of Shakespeare.

3 s.h.

K 1501 0260 Myth and Literature

Comparative study of selected occidental and oriental myths—their origins, meanings, and major archetypes and motifs. Application of this background to an understanding of how myth and the myth-making process function in literary works of art.

3 s.h.

K 1501 0294 Women Poets

Selected poets from Sappho through Emily Dickinson to Sylvia Plath. Readings in the psychology and biology of women.

3 s.h.

Prerequisite: L 1501 0160

K 1501 0316 Reporting of Public Affairs

Practical opportunity for journalism students to write news articles on local political activity. Report and analysis of specific duties and activities of local legislative and judicial officials.

3 s.h.

Prerequisite: one course in basic journalism writing or consent of instructor

K 1501 0324 American Poetry to 1940

The poetry of Poe, Emerson, Longfellow, Whitman, Dickinson, S. Crane, Pound, Eliot, H. Crane, Sandburg, Frost, Hughes, and other selected poets.

3 s.h.

K 1501 0334 American Drama

Drama by American authors chosen for excellence or representation of a significant era or movement in the theatre.

3 s.h.

K 1501 0336 American Literary Realism

Development in Realism: the works of James, Howells, Twain, S. Crane, Norris and Dreiser.

3 s.h.

K 1501 0337 Modern American Fiction

Artistic achievement and the place in literary history of S. Anderson, Hemingway, Faulkner, Dos Passos, Fitzgerald, Steinbeck, and others.

3 s.h.

K 1501 0338 Contemporary American Fiction

Developments in American fiction from World War II to the present. Ellison, Malamud, Mailer, Updike, O'Connor, Barth, Bellow and others.

3 s.h.

- K 1501 0343 Milton**
Milton's Juvenilia and prose selections leading to one of his major works. 3 s.l.
- K 1501 0346 Nineteenth Century English Romantic Literature**
The Romantic revolt of poets—Wordsworth, Coleridge, Shelley, Byron and Keats—and of Essayists—Hazlitt, De Quincy and Lamb. 3 s.l.
- K 1501 0347 Victorian Prose and Poetry**
Mid-and late-nineteenth century responses to the emergence of modern British society. The prose writing of Carlyle, J. S. Mill, Ruskin, T. H. Huxley, Newman, Arnold and Morris. The poetry of Tennyson, Browning and Arnold. 3 s.
- K 1501 0353 Shakespeare: Comedies and Histories**
Representative comedies and histories are examined for their sources, typical devices and general characteristics; Shakespeare's vision of man as actor in the comic mode and in roles of leadership are also studied. Attention is given to the context of Elizabethan society and to the staging of plays. 3 s.
- K 1501 0354 Tragedies and Romances**
The tragic mode and the special vision of the later romances. 3 s.
Prerequisite: Satisfaction of freshman writing required.
- K 1501 0356 English Novel to 1900**
Form and theme of the English novel through eighteenth and nineteenth centuries, judged by literary, social, moral and cultural criteria. 3 s.
- K 1501 0364 Contemporary Poetry: Auden to Present**
Distinctive poetry movements since the Imagists. Study in depth of representative poets. Critical appreciation through comparison of diverse styles, themes and poetic theories. 3 s.
- K 1501 0370 English Independent Study**
Open to any junior or senior who has developed a special interest, or who wishes to develop his scholarly interest. Ability to conduct independent study demonstrated by responsibility and depth of interest. 2-3
Prerequisite: Instructor's permission
- K 1501 0371 English Independent Study**
Open to any junior or senior who has developed a special interest, or who wishes to develop his scholarly interest, or to investigate some future course leading to graduate or vocational study. Ability to conduct independent study determined by responsibility and genuineness of interest. 2-3
Prerequisite: Instructor's permission
- K 1501 0385 Verbal and Non-Verbal Language**
Effects of language on human thinking, behavior and personality. Recent studies of problems of verbal communications. 3
- K 1501 0393 The Political Novel in the U.S. Since 1900**
Social Darwinism, socialism, communism, World War I, the great depression, World War II reflected in American novels having political themes as their dominant characteristic. 3
Prerequisite: survey course in one of the following: Am. Lit., American history, sociology, politics, science.
- K 1501 0401 Old English Language and Literature**
Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of conquest England. Recitation and reading in the original old English. No previous language training required. 3
- K 1501 0426 The American Film**
The most important American films, both silent and talking, trace the evolution of the American film from its beginnings to the present. Special attention will be given to those genres in which American films are distinctive or of particular excellence, and consideration will be given to the way the American film reflects the social and cultural values of twentieth century American life. 3

K 1501 0427 Film Comedy

The course will study what is probably the richest tradition in the literature of the film—film comedy. In no area is the medium more uniquely itself than in comedy, and the course will discuss and analyze film comedies of all periods, not only in terms of film techniques and potentials, but also in light of various traditional theories of comedy. Primarily American silent and talking comedies will be used.

3 s.h.

K 1501 0428 Film and Society

A study of the relationship between film and the society which produces this most popular of the arts. Either a specific social issue, a particular society or group of societies, or a special historic period will be explored, depending on the approach of the instructor.

3 s.h.

K 1501 0442 The Instruction of Communications Skills

Methods are considerably different from any traditional approach to composition and aim at providing the secondary school student or college freshman with: (1) a maximum of individual instruction; (2) an opportunity to gear the course content to his own individual needs & interests; (3) a chance to work at his own pace and develop self-reliance in composition and revision; (4) and a chance to practice the oral, aural, written, typing and research skills necessary for a successful college career.

3 s.h.

K 1501 0444 Seventeenth-Century English Poetry

Major currents: the schools of Donne and Jonson, the work of Marvell and Dryden.

2 s.h.

Prerequisite: Instructor's permission

K 1501 0446 Literature of the Irish Renaissance Period

Irish expression of romanticism, naturalism, symbolism and realism. Joyce, Shaw and Yeats.

3 s.h.

K 1501 0455 Restoration Drama

Wycherley, Congreve, Vanbrugh and Dryden in relation to dramatic forms and conventions. Production techniques of the era. Three major innovations: Comedy of manners, proscenium stage, the tress.

3 s.h.

K 1501 0456 Twentieth Century English Novel

Anglo-British fiction from Galsworthy to Kingsley Amis; Joyce, Forster, Conrad, Lawrence and A. Huxley.

3 s.h.

K 1501 0470 The Contemporary Film

Beginning with the American film Noir and the European films which emerged after World War II, the course traces the major films, critical theories, and other influences which make up the contemporary film and film sensibility both abroad and in America.

3 s.h.

K 1501 0471 Teaching English in the Secondary School

An organic approach to the problems of communicating both the disciplines and the human dimensions of English as a subject in the classroom.

3 s.h.

K 1501 0493 Seminar in American Literature

Reading and studying the works of one American author, literary approach or theme.

3 s.h.

Prerequisite: Majors only

K 1501 0494 Seminar in English Literature

Work of one major British author, chosen by the department, professor and participating students. Prerequisite: Designed for upper class English majors with a specialization in English Literature. Enrollment limited. Majors only.

3 s.h.

K 1503 0172 Western World Literature

Comparative study of literary masterpieces selected primarily from classical, Hebraic, Italian, Spanish, French, German, Scandinavian, and Russian authors, which reflect the major cultural transitions that shaped Western World History, thought, and tradition.

3 s.h.

K 1503 0173 Eastern World Literature

Literatures of Persia, India, China and Japan. Attention given to modern writings.

2 s.h.

K 1503 0237 Science Fiction

Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.

3 s

K 1503 0266 African Myth and Literature

An exploration of the unique yet universal nature of the sub-Saharan experience and vision through study of selected African myths and literary works within the context of appropriate cultural, critical and theoretical backgrounds.

3 s

K 1503 0273 Literary Modernism

Study of intellectual background of modern lit. including futurism, dada, surrealism, & expressionism. Theoretical writings, poetry & prose will be read. Films & slides of art works will be shown.

3 :

K 1503 0274 Modern Drama: Ibsen to O'Neill

Representative plays studied for individual merit and for unique contributions to modern drama. Critical insights and historical perspective as keys to understanding and appreciation.

3

K 1503 0278 Speculative Fiction Fantasy

The impossible and improbable in the imaginative fiction of non-worlds—exclusive of technological science fiction.

3

K 1503 0365 The Age of Enlightenment (In English)

The European Enlightenment, principally as the rational critical attack on tradition, and the beginning of the movement of pre-romanticism and sensitivity.

3

K 1503 0366 The Romantic Hero (In English)

A study of the hero in English, German, and French romantic literature.

3

K 1503 0372 Major Women Prose Writers

Significant relationships among the writings of not more than five women selected from Mme. de Staél through Charlotte Brontë and Virginia Woolf, to Mary McCarthy and Susan Sontag—each work reflective of its particular era.

3 h

K 1503 0374 Contemporary British and European Drama

Selected plays presenting the themes, values and dramatic techniques of selected dramatists of our times.

3 h

K 1503 0376 Modern European Novel

Insight into the trends beginning about 1910 as they influenced the creative expression of such novelists as Gide, Hesse, Kafka, Woolf and others.

3 h

K 1503 0381 Comic & Satiric Tradition

A comparative study of the nature of devices such as irony, exemplified historically in the different genres.

3 h

K 1503 0463 History of Criticism

The major figures in literary criticism from classical to modern times. Plato, Aristotle, Horace, Longinus, their imitators and interpreters in the Renaissance and Neoclassic periods. Innovations of the romantics and of modern critics such as T. S. Eliot and I. A. Richards.

3

K 1503 0464 Modern Poetry: French Symbolists to T. S. Eliot

Representative symbolist, Georgian and Imagist poets theories and principles as basis of modern poetry.

3

K 1503 0466 World Film

The course will study some of the greatest films from the major film producing countries excluding United States. Films from France, Germany, Italy, Sweden, Russia, England, and Japan considered discussed partly for what they reveal that is particular to their culture, but primarily for their aesthetic value and their contribution to our understanding of the human condition in all societies.

3

K 1503 0467 Major Film Genres

An investigation in depth of several of the most important film genres, ones either characteristic of a particular country or those which are comprised of works from several film producing nations. At any time, up to three genres would be studied and could include, among others, the American Western,

3

documentary, the German expressionist film, the art film, the musical, the Japanese Samurai film, the Shakespeare adaptation, and film noir. 3 s.h.
 Prerequisite: junior standing.

K 1503 0468 The Silent Film

Course will study the finest examples of silent screen from the earliest American and French efforts up to the coming of the talking film. All major film producing countries will be considered, but special emphasis will be given to the films of those countries such as Germany and the Soviet Union which reached their greatest artistic height during the silent era. 3 s.h.

K 1503 0474 Drama on Film

Outstanding film production of great European and American plays are compared to the stage versions to determine how the play's artistic thrust has been enhanced or hindered in the screen version. 3 s.h.

K 1503 0492 Seminar in Comparative Literature

Exploring a culture, era, literary approach, theme, through literary masterpieces. 3 s.h.
 Prerequisite: Majors only

K 1505 0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains and the morphology of Old and Middle English. 3 s.h.

K 1505 0384 The Grammars of English

Review of the traditional English grammar. Introduction to new theories of grammar. The place of grammar in the teaching of rhetoric and composition. 3 s.h.

Prerequisite: K 1505 0284

K 1505 0430 Field Methods

Collecting linguistic data from an informant. Human factors in field work. Qualifications of the informant elicitation techniques. 3 s.h.

K 1505 0490 Seminar in Linguistics

The linguistic approach to literary criticism; reading and group discussion, linguistic evaluations of literature; tests of such evaluations against the archetypal approach; linguistic approach to decoding the language of the artist. 3 s.h.

Prerequisite: Designed for upper class English majors with a specialization in linguistics. Enrollment limited. Majors only.

K 1507 0114 Practical Journalism 1

Basic procedures and practices in a professional field. Constructive use of and respect for the printed word. Writing news and correcting copy for the Montclarion. 3 s.h.

Prerequisite: Instructor's permission

K 1507 0198 Creative Writing

Cognition and development of one's best form and style through writing and criticism by professor of class. 3 s.h.

K 1507 0205 Advanced Writing Skills

Designed to provide students with the opportunity to develop advanced writing skills, the course assesses development of a personal writing style, adaptation of writing style to various subjects and genres, and experimentation with different modes of exposition. 3 s.h.

Prerequisite: K 1507 0105

K 1507 0210 Creative Writing Drama

Nature of dramatic dialogue. The problem of form. The part played by the script in creating a one-act play. 3 s.h.

Prerequisite: K 1507 0198

K 1507 0212 Creative Writing: Poetry

Techniques and fundamentals of writing poetry discussed and applied to student manuscripts. 3 s.h.

Prerequisite: K 1507 0198

K 1507 0214 Practical Journalism II

Continuation of fundamentals of K1507-0114 Practical Journalism, plus a focus on feature and editorial writing.

3 s.l

Prerequisite: K 1507 0114

K 1507 0215 Creative Writing: Prose

Fundamentals and techniques of writing prose fiction, essays and autobiography applied to extensive individual projects.

3 s.

Prerequisite: K 1507 0198

K 1507 0301 Cooperative Ed for Eng Major

The English Coop Education course will integrate academic study with a supervised employment experience outside the classroom. The coop term is a semester off campus, during which the student is supervised by a faculty coordinator and the Office of Cooperative Education and is responsible for completing the terms of a learning contract designed by the faculty coordinator and the student.

8 s

K 1507 0313 Workshop Journalism I

Technical knowledge of 1507 114 & 214 in routine use. Class and Montclarion office run by the student. Class set up as news office with blocked time available for students to spend ample time in the office.

3 s

Prerequisite: K 1507 0114 or L 1507 0214 Instructor's permission

K 1507 0314 Workshop Journalism II

Further development of the work begun in Workshop Journalism I.

3 s

Prerequisite: K 1507 0313 or instructor's permission

K 1507 0316 Magazine Journalism

A practical journalism course in the researching, writing, and placement of feature stories in periodicals.

3

Prerequisite: K 1507 0114

K 1507 0407 Critical Writing

Introduction to major traditional and contemporary theories of literature such as literature and meaning, ideals, literature and psychological theory, literature and social ideals, literature as aesthetic structure, literature and myth. Frequent essay writing applying these approaches, singly and in combination, the analysis of selected literary works.

3

K 1507 0410 Advance Creative Writing Drama

The writing of plays, with emphasis on both the one-act play and the full-length play. Traditional forms explored, but freedom allowed to investigate new trends in the theatre.

3

Prerequisite: K 1507 0210 or instructor's permission

K 1507 0412 Advanced Creative Writing Poetry

Advanced work in the writing of poetry.

3

Prerequisite: K 1507 0212 or instructor's permission

K 1507 0415 Advanced Creative Writing Prose

Advanced work in the writing of prose.

3

Prerequisite: K 1507 0215 or instructor's permission

K 1507 0416 Interpretive Journalism

The structure, purposes and techniques of editorial and interpretive journalism. Practice in writing editorials and editorials and critical reviews.

3

Prerequisite: K 1507 0114 or CRS in similar field

K 1507 0491 Seminar in Writing

Individual attention and instruction to the advanced student in creative writing, expository writing, journalism, or theories of the teaching of composition.

Prerequisite: Designed for upper class English majors with a specialization in writing, enrollment limited. Majors only

K 4903 0198 The Butler Didn't Do It

Course will entail a consideration of 20th cent. American detective novels & short stories. Focus on structure of detective novel, the intellectual detective, the physical detective, the culture as it is reflected in this popular genre, & the tremendous appeal of this genre for the reading public. Summer mini course.
Prerequisites: K 1501 0105, K 1501 0106 3 s.h.

K 4903 0196 Intro. To The Film

Film art form as social force, educational device, entertainment medium. History of motion pictures, film techniques, scenario as literary type. Numerous films shown. 3 s.h.

K 4903 0296 The Contemporary Film

American and foreign films of outstanding merit. Plot, theme, aesthetic standards, social attitudes and the personal statements of such directors as Bergman, Fellini, Antonioni. 3 s.h.

K 4903 0297 Literature and Sociology

Literary works as mirror and criticism of society, through sociologists from Comte to Reisman. Individual vs. communal values, class conflict, conformity and protest, and the relationship of literary type and social structure. 3 s.h.

Prerequisite: 6 s.h. in English

K 4903 0298 Literature and Psychology

he major modern depth psychologies—Freudian, Jungian, Adlerian. Literary portrayal of human character and action in world literature. The quest for selfhood. The alienated individual. Love and marriage, parents and children. 3 s.h.

K 4903 0299 Literature and Art in the Western World

n examination of the relation between art and literature through a study of selected literary, art and musical compositions. 3 s.h.

K 4903 0397 Biography

ources of biography in letters, diaries, memoirs. Biographies from medieval England to contemporary Pulitzer Prize winners studied. Emphasis on changing concepts of form and on revelations of the nature, character, and varied destinies of personality. 3 s.h.

K 4903 0398 Autobiography

Autobiographical readings, especially in letters, diaries, and journals, from ancient times to the present. emphasis on deeper insight into life political figures for significance for contemporary life. 3 s.h.

K 4903 0399 Development of Black Thought

ources of biography in letters, diaries, memoirs. Biographies from medieval England to contemporary Pulitzer Prize winners studied. Emphasis on changing concepts of form. 3 s.h.

Prerequisite: A course in American History or Philosophy

K 4903 0460 Seminar in Creative Mythology

Exploration of the broad humanities import of mythology and the archetypal and related theories in such areas as literature, the arts, philosophy, religion, science and the social sciences as a basis for creative participation in these disciplines and the continued self-discovery and creative evolution of each participant. 3 s.h.

Prerequisite: K 1501 0260 or instructor's permission

Department of French

Professors: Klibbe (Chairman), Szklarczyk, Cagnon

Associate Professors: Roederer, Sergent, Standring, Wilkins

Assistant Professors: Glick, Richards, Soffer

The Department of French prepares liberal arts and teacher education students in sound scholarship, culture and understanding of the French people. Courses are planned to provide linguistic and literary appreciation and understanding of human relationships.

A translation-interpretation concentration is available to French majors who wish to further develop their linguistic skills and who intend to enter careers related to international organization.

Majors who intend to continue their studies beyond the Bachelor of Arts are advised to acquire proficiency in at least one other foreign language.

An attractive option in French language study is a year of study in a foreign country. Students desiring academic credit for study abroad must obtain permission from the chairman. The country and institution in which the student wishes to study, the amount of credit to be received, and reports to be made are arranged with the study abroad advisor of the department.

Students may also elect an 18-hour French Minor, or a 24-hour second teaching field in French.

Students who wish to begin French in college should register for L 1102 0101 Beginning French I.

Students who wish to continue their study of French in college and have had two years of high school French should register for L 1102 0111 Beginning French II or L 1102 0121 Intermediate French I; three years of high school French—register for L 1102 0132 Intermediate French II.

French majors are strongly encouraged to take courses over and above the minimum requirement of 33 semester hours.

Recommended for all French Majors

Semester Hours

N 1508 0210	Introduction to General Linguistics
-------------	---	-------

Incoming French Majors should register for the following courses in freshman year

L 1102 0150, 0155	French Stylistics & Composition I, II
-------------------	---	-------

L 1102 0155	French Phonetics
-------------	------------------------	-------

These courses are prerequisites to all French major courses.

French Major

Requirements (Liberal Arts)

Semester Hours

L 1102 0150, 0151	French Stylistics & Composition I, II
-------------------	---	-------

L 1102 0155	French Phonetics
-------------	------------------------	-------

L 1102 0250	Advanced Composition
-------------	----------------------------	-------

L 1102 0220	Explication de Texte
-------------	----------------------------	-------

L 1102 0201	17th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0210	18th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0301	19th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0310	20th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

French electives
------------------------	-------	-------

REQUIRED TOTAL 33

Requirements (Teacher-Education Program)

Semester Hours

L 1102 0150, 0151	French Stylistics & Composition I, II
-------------------	---	-------

L 1102 0155	French Phonetics
-------------	------------------------	-------

L 1102 0250	Advanced Composition
-------------	----------------------------	-------

L 1102 0220	Explication de Texte
-------------	----------------------------	-------

L 1102 0310	20th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0410	Advanced French Grammar
-------------	-------------------------------	-------

Select two:

L 1102 0201	17th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0210	18th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

L 1102 0301	19th Century French Literature (Prerequisite L 1102 0220)
-------------	---	-------

French electives
------------------------	-------	-------

REQUIRED TOTAL 33

Second Teaching Field in French

Select 24 semester hours:

L 1102 0150, 0151	French Stylistics & Composition I, II
-------------------	---	-------

L 1102 0155	French Phonetics
-------------	------------------------	-------

L 1102 0220	Explication de Texte	3
L 1102 0250	Advanced Composition	2
L 1102 0165	Spoken Language Practice	3
L 1102 0410	Advanced French Grammar	3
	French elective courses	6
	(at least one literature course)	
		REQUIRED TOTAL 25

Teacher Education

Students desiring teacher certification must:

1. have a "B" average in French;
2. apply to the teacher education program in their sophomore year.

Those accepted are required to take: L 1102 0419, Teaching of French in Secondary Schools—3 s.h.

They must also select the professional sequence outlined by the education department.

Concentration in Translation

Requirements

		Semester Hours
L 1102 0150, 0151	French Stylistics & Composition I, II	3 ea.
L 1102 0155	French Phonetics	2
L 1102 0160	French Civilization: 19th & 20th Centuries	3
L 1102 0220	Explication de Texte	3
L 1102 0250	Advanced Composition	2
L 1102 0350	Translation I	3
L 1102 0351	Translation II	3
L 1102 0365	Introduction to Consecutive & Simultaneous Interpreting or	3
L 1102 0452	Translation III	3
L 1102 0410	Advanced French Grammar	3
	French Electives	5
		REQUIRED TOTAL 33

Recommended Electives

L 1102 0135	Commercial French I	3
L 1102 0136	Commercial French II	3
L 1102 0260	Origins of French Civilization	3
L 1102 0310	20th Century French Literature (Prerequisite 1102 0220)	3
L 1102 0265	Advanced Spoken Language Practice	3

French Minor

Requirements (Liberal Arts)

L 1102 0150, 0151	French Stylistics & Composition I, II	3 ea.
L 1102 0155	French Phonetics	2
	French literature or civilization	3
	French electives	7
		REQUIRED TOTAL 18

Requirements (Business Emphasis)

L 1102 0101, 0112	Beginning French I, II	3 ea.
L 1102 0121, 0132	Intermediate French I, II	3 ea.
L 1102 0135, 0136	Commercial French I, II	3 ea.
		REQUIRED TOTAL 18

Electives

		Semester Hours
L 1102 0135	Commercial French I	3
L 1102 0136	Commercial French II	3

L 1102 0160	French Civilization: 19th and 20th Centuries
L 1102 0165	Spoken Language Practice
L 1102 0202	17th Century Theater
L 1102 0211	18th Century Theater
L 1102 0230	French Film
L 1102 0251	Advanced Syntax
L 1102 0260	Origins of French Civilization
L 1102 0261	Music in French Civilization
L 1102 0265	Advanced Spoken Language Practice
L 1102 0311	Contemporary French Drama
L 1102 0315	Dada and Surrealism
L 1102 0330	Survey of Medieval Literature
L 1102 0335	The French Renaissance
L 1103 0340	Survey of French Poetry
L 1102 0345	Development of French Novel
L 1102 0349	Francophone Literature
L 1102 0350	Translation I
L 1102 0351	Translation II
L 1102 0360	French Perspectives
L 1102 0365	Introduction to Consecutive and Simultaneous Interpreting
L 1102 0375	French Study Abroad
L 1102 0410	Advanced French Grammar
L 1102 0452	Translation III
L 1102 0467, 0468, 0469, 0470	Seminars
L 1102 0472	French Language Workshop
L 1102 0478	Independent Study
	Credit by Evaluation
	REQUIRED TOTAL

Humanities Electives (In English)

J 4903 0155	Introduction to French Literature: Middle Ages to 18th Century
J 4903 0156	Introduction to French Literature: 19th and 20th Centuries
J 4903 0250	French Perspectives
J 4903 0260	Major Currents of Modern Thought in French Literature
J 4903 0265	Modern French Theater
J 4903 0286	French Film
J 4903 0287	Modern French Fiction
J 4903 0288	Music in French Civilization
J 4903 0275	The Writer's Craft in French Literature
J 4903 0245	The Napoleonic Wars in Fact and Fiction
J 4903 0386	Development of French Novel to 1900
J 4903 0390	Contemporary French Anti-Literature 1950-1970
J 4903 0186	Myths and Images of Women in French Literature
L 1102 0375	French Study Abroad

Comparative Literature Electives (in English)

K 1503 0365	The Age of Enlightenment
K 1503 0366	The Romantic Hero

French Course Descriptions

L 1102 0100 French Reading Course

Learning to read French as a tool for research (a service course of MA candidates in English; successful completion of this course will satisfy the language requirement).

L 1102 0101 Beginning French I

For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Laboratory work available. 3 s.h.

L 1102 0112 Beginning French II

For students starting French in college. Fundamental training in the speaking, reading and writing of simple French. Lab work available. 3 s.h.

Prerequisite: 101 for 112 or Equivalent L 1102 0101

L 1102 0120 Intensive Elementary French

An intensive course covering the beginning French program. Laboratory work available. 3 s.h.

L 1102 0121 Intermediate French I

Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. 3 s.h.

Prerequisite: L 1102 0121, CRS in similar field

L 1102 0132 Intermediate French II

Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. 3 s.h.

Prerequisite: L 1102 0121, CRS in similar field

L 1102 0135 Commercial French I

A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises. 3 s.h.

Prerequisite: L 1102 0132, CRS in similar field

L 1102 0136 Commercial French II

Two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises. 3 s.h.

Prerequisite: L 1102 0135

L 1102 0141 Advanced French

Improvement of language skills through a selection of texts. 3 s.h.

L 1102 0150 French Stylistics & Comp I

Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program. 3 s.h.

Prerequisite: L 1102 0132, CRS in similar field

L 1102 0151 French Stylistics & Comp II

Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program. 3 s.h.

Prerequisite: L 1102 0150

L 1102 0155 French Phonetics

Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation. Intensive language laboratory work. 2 s.h.

L 1102 0160 French Civil 19 & 20 Centuries

Various aspects of the material, intellectual, artistic, and spiritual life of France. 3 s.h.

Prerequisite: French majors or by instructor's permission

L 1102 0165 Spoken Language Practice

Extensive conversation with organized discussions on subjects of special interest 3 s.h.

L 1102 0201 Seventeenth Century French Literature

The most representative authors of the century. 3 s.h.

L 1102 0202 Seventeenth Century French Theater

Play of Corneille, Racine and Moliere 2 s.h.

L 1102 0210 Eighteenth Century French Literature	Main writings of the age of enlightenment.	3 s.
L 1102 0211 Eighteenth Century Theater	Comedy, tragedy and the origin of the drama.	2 s.
L 1102 0220 Explication de Texte	Improvement of reading skills and literary perception through the technique of the explication de text using examples from a wide variety of periods and genres.	3 s.
Prerequisite: L 1102 0151		
L 1102 0230 French Film	Development of film art with special emphasis on the contemporary period.	3 s.
L 1102 0250 Advanced Composition	A review of advanced grammar through intensive written and oral practice.	2 s.
L 1102 0251 Advanced Syntax	Advanced French syntactical theory.	2 s.
L 1102 0260 Origins of French Civilization	French history and cultural development from the Middle Ages to the revolution.	3 s.
L 1102 0261 Music in French Civilization	Composers from the Middle Ages (Perotin) to modern times (Boulez) their social and cultural backgrounds.	3 s.
L 1102 0265 Advanced Spoken Language Practice	Intensive conversation on an advanced level on selected and varied topics.	3 s.
L 1102 0301 Nineteenth Century French Literature	Principal literary currents from romanticism to symbolism.	3 s.
L 1102 0310 Twentieth Century French Literature	Representative works of contemporary theater and the novel.	3 s.
L 1102 0311 Contemporary French Drama	Theater from the beginning of the century to the present.	2
L 1102 0315 Dada and Surrealism	The Dada and Surrealist movements; their influence on twentieth century life.	2
L 1102 0330 Survey of Medieval Literature	Development of the principal genres Chanson de Geste, courtly romance, drama and poetry.	3
L 1102 0335 The French Renaissance	Selected works of Rabelais, Montaigne and the poets of the Pleiade.	3
L 1102 0340 Survey of French Poetry	Development of principal poetic movements with emphasis on the 19th and 20th centuries.	2
L 1102 0345 Development of French Novel to 1900	Evolution of fiction from the feminist writings of Mme. de la Fayette and Diderot's. Literature of social involvement to the present.	3
L 1102 0349 Francophone Literature	Literature of French expression outside continental France.	3
L 1102 0350 Translation I	Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure analysis and expression of ideas and images.	3
L 1102 0351 Translation II	Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure analysis and expression of ideas and images.	3
Prerequisite: L 1102 0350		

L 1102 0360 French Perspectives

A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields. 2 s.h.

L 1102 0365 Introduction to Consecutive and Simultaneous Interpreting

The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French. Prerequisite: L 1102 0350 L 1102 0351 3 s.h.

L 1102 0375 French Study Abroad

Junior year abroad in a French university. Credit by evaluation

L 1102 0410 Advanced French Grammar

A review of the most important structural features of French, with special emphasis on areas of interference with English structure. 3 s.h.

L 1102 0419 The Teaching of French in Secondary Schools

Lesson planning, evaluation of techniques, demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches. 3 s.h.

L 1102 0452 Translation III

Translation of articles in specific fields of interest to improve translation skills. 3 s.h.

L 1102 0467 Seminars

Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester. 3 s.h.

L 1102 0468 Seminars

Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester. 3 s.h.

L 1102 0469 Seminars

Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester. 3 s.h.

L 1102 0470 Seminars

Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester. 2 s.h.

L 1102 0472 French Language Workshop

Thorough foundation in French at the level required for successful graduate studies. 2 s.h.

L 1102 0478 Independent Study

Directed independent study and research in French language and literature. 1-3 s.h.

Humanities Elective Course Descriptions

J4903 0155 Introduction to French Literature Middle Ages to 18th Century (in English)
Study of major works and literary social movements of that period. 3 s.h.

J4903 0156 Introduction to French Literature 19th and 20th Centuries (in English)
Study of major works and trends of that period. 3 s.h.

J4903 0186 Myths & Images of Women in French Literature (In English)
Literary treatments of female characters in representative works from the middle ages to the present. 3 s.h.

J4903 0250 French Perspectives (In English)
Interplay of contemporary political, economic, social and artistic events in France and the U.S. 3 s.h.

J4903 0245 Napoleonic Wars Fact & Fiction
The historical novel as a genre the relation of fiction to fact. 3 s.h.

- J 4903 0260 Major Currents of Modern Thought in French Literature (In English)**
Study of the dominant social, theological and aesthetic movements in French literature through selected works of prose and drama from the beginning of the century to the present. 3 s.
- J 4903 0265 Modern French Theater (In English)**
Study of the most significant plays of Claudel, Montherlant, Giraudoux, Sartre, Beckett and others 3 s.
- J 4903 0275 The Writer's Craft in French Literature (In English)**
Imagery in selected works in French prose and drama, as stylistic means for the expression of the author's dominant ideas and attitudes. 3 s.
- J 4903 0286 French Film (In English)**
Development of film art with special emphasis on the contemporary period. 3 s.
- J 4903 0287 Modern French Fiction**
Major novelistic modes from the writer-artist conceptions of Gide, through the committed literature of Sartre and Camus, to Robbe-Grillet's new novel of the 50's. 3 s.
- J 4903 0288 Music in French Civilization**
Composers from the Middle ages (Perotin) to modern times (Boulez) in relation to their social and cultural backgrounds. 3 s.
- J 4903 0386 Development of French Novel to 1900 (in English)**
Evolution of fiction from the feminist writings of Mme. de la Fayette and Diderot's literature of social involvement to the present. 3 s.
- J 4903 0390 Contemporary French Literature**
Contemporary trends in French writing as revealed in selected works from various genres. 3 s.
- L 1102 0375 French Study Abroad**
A three-week cultural seminar in Paris, held during the January intersession and organized by the French Department. No knowledge of French is necessary. 3 s.
- K 1503 0365 The Age of Enlightenment**
The European enlightenment, principally as the rational critical attack on tradition, and the beginning of the movement of pre-romanticism and sensitivity. 3 s.
- K 1503 0366 The Romantic Hero (In English)**
The study of the hero in English, German, and French romantic literature. 3 s.

Department of German and Russian

Professor: Heilbronner

Associate Professors: Moore (Chairman), Schlant

Assistant Professor: Lindblom

The Department of German and Russian prepares students in the liberal arts and in teacher education by offering courses geared to give command of the two languages and an understanding of the respective literatures and cultures. Prospective teachers are required to take courses in phonetics, general linguistics and teaching methodology. German may be selected as a liberal arts major, a teacher education major, a second teaching field or a liberal arts minor. Russian courses are designed to meet special interests of students and to complement other major fields. Russian may be selected as a second teaching field or a liberal arts minor. Majors in German are encouraged to arrange for academic study in a German-speaking country, whether it is for a summer, a semester or an entire academic year. Such work undertaken with the approval of the department they receive academic credit.

German Major

Requirements

		Semester Hours
M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
M 1103 0251, 0252	Introduction to Literature I, II	3 ea.
M 1103 0351, 0352	German Civilization I, II	3 ea.

Electives: Select four

M 1103 0142	Practice in Written German	3
M 1103 0209	Phonetics and Phonology	3
M 1103 0309	Practice in Spoken German	3
M 1103 0310	Advanced Composition	3
M 1103 0315, 0316	Translation I, II	3 ea.
M 1103 0320	Development of the German Language	3
M 1103 0341	German Literature from the Origins to the Reformation	3
M 1103 0342	German Literature from the 16th to the 18th Centuries	3
M 1103 0360	Modern German Prose Fiction	3
M 1103 0362	Development of German Poetry	3
M 1103 0364	German Drama of the 19th and 20th Centuries	3
M 1103 0375	Study Abroad	Credit by Evaluation
M 1103 0380, 0381	Independent Study in German (Junior Level)	3 ea.
M 1103 0410	German Grammar; Applied Linguistics	3
M 1103 0441	The Age of Goethe	3
M 1103 0442	The Age of Schiller	3
M 1103 0460	Senior Seminar	3
M 1103 0480, 0481	Independent Study in German (Senior Level)	3 ea.
REQUIRED TOTAL		33

Students who desire teacher certification must select the professional sequence by the education department, including the following courses:

		Semester Hours
N 1505 0210	Introduction to General Linguistics	3
M 1103 0410	German Grammar; Applied Linguistics	3
M 1103 0419	Teaching German in Secondary Schools	3

They are urged to elect:

M 1103 0142	Practice in Written German	3
M 1103 0209	Phonetics and Phonology	3

It is emphasized that the total of 33 semester hours required for the major is regarded as a minimum. Majors are encouraged to take as many German courses as they wish beyond this minimum.

German Minor

M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
Three additional courses in German (M 1103 prefix only) beyond the intermediate level		9
REQUIRED TOTAL		18

Second Teaching Field in German

M 1103 0141	Review of Fundamental Grammar	3
M 1103 0151, 0152	Advanced German I, II	3 ea.
M 1103 0251, 0252	Introduction to German Literature I, II	3 ea.
Three additional courses in German (M 1103 prefix only) beyond the intermediate level		9
REQUIRED TOTAL		24

Russian Minor*

M 1106 0101 and 0112	Beginning Russian I, II	
M 1106 0121 and 0132	Intermediate Russian I, II	
M 1106 0141 and 0152	Advanced Russian I, II	
		REQUIRED TOTAL

Russian Area Studies Minor**Requirements****Semester Hou**

M 1106 0101, 0112	Beginning Russian I, II	
Soviet History or Political Science (see department entries)	.....

Electives (select a total of at least six semester hours)

M 1106 0121, 0132	Intermediate Russian I, II	
M 1106 0141, 0152	Advanced Russian I, II	
J 4903 0293	Russian Culture and Civilization	
J 4903 0294	Russian Prose and Drama	

Appropriate courses in other departments (see below)

REQUIRED TOTAL

The Russian Area Studies Minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator, who is chairman of the Department of German and Russian.

Second Teaching Field in Russian*

M 1106 0101 and 0112	Beginning Russian I, II	
M 1106 0121 and 0132	Intermediate Russian I, II	
M 1106 0141 and 0152	Advanced Russian I, II	
J 4903 0293	Russian Culture and Civilization	
J 4903 0294	Russian Prose and Drama	

REQUIRED TOTAL

*Under certain circumstances and with permission of the Department Chairman, other selected courses may be counted.

German **Course Descriptions**

M 1103 0101 Beginning German I (Speaking)

For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.

M 1103 0103 Beginning German I (Reading)

For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers which reading knowledge of German is needed.

M 1103 0110 Introduction to German Business, Culture and Language

The student will gain a basic insight into the culture, society and language of commerce and industry of the German-speaking countries. Includes study of the foreign cultural environment together with essential linguistic background. No prior knowledge of German required.

M 1103 0112 Beginning German II (Speaking)

For students without previous instruction in German. Emphasis on speaking, with practice in reading and writing simple German. Laboratory work optional.

Prerequisite: 101 or equivalent for 112, CRS in similar field

M 1103 0114 Beginning German II (Reading)

For students without previous instruction in German. Emphasis on acquiring a reading knowledge of the language. Suggested as preparation for graduate school language requirements or for careers

which reading knowledge of German is needed.

3 s.h.

Prerequisite: M 1103 0103, or CRS in similar field

M 1103 0121 Intermediate German I (Speaking)

Continuation of German 0101 and 0112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking.

3 s.h.

Prerequisite: M 1103 0112, or CRS in similar field

M 1103 0123 Intermediate German I (Reading)

Continuation of German 0103 and 0114. Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields outside reading required.

3 s.h.

Prerequisite: M 1103 0114, CRS in similar field.

M 1103 0132 Intermediate German II (Speaking)

Continuation of German 0101 and 0112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work optional

3 s.h.

Prerequisite: M 1103 0121, CRS in similar field.

M 1103 0134 Intermediate German II (Reading)

Continuation of German 0103 and 0114. Open to students who have acquired an elementary reading knowledge of German elsewhere. More difficult German reading in various fields outside reading required.

3 s.h.

Prerequisite: M 1103 0123, CRS in similar field

M 1103 0141 Review of Fundamental Grammar

Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.

3 s.h.

Prerequisites: M 1103 0132, M 1103 0134, Instructor's permission, CRS in similar field.

M 1103 0142 Practice in Written German

Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.

3 s.h.

Prerequisite: M 1103 0141 or L 1102 0134, CRS in similar field.

M 1103 0151 Advanced German I

Continuation of Intermediate German on a more advanced level. Students must follow class instruction German, speak and write simple idiomatic German and read and discuss increasingly difficult signs in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.

3 s.h.

Prerequisites: M 1103 0132, M 1103 0134, instructor's permission, CRS in similar field.

M 1103 0152 Advanced German II

Continuation of Intermediate German on a more advanced level. Students must follow class instruction German, speak and write simple idiomatic German and read and discuss increasingly difficult signs in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.

3 s.h.

Prerequisite: M 1103 0151

M 1103 0209 Phonetics and Phonology

Application of phonetic science to the acquiring and teaching of good pronunciation. The international Phonetic alphabet. Problems of articulation, rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

3 s.h.

M 1103 0251 Introduction to Literature I

Standard works of German literature from the classical period to the present. Methods of literary interpretation. Developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given admission preference.

3 s.h.

M 1103 0252 Introduction to Literature II

Standard works of German literature from the classical period to the present. Methods of literary interpretation. Developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given admission preference.

3 s.

Prerequisite: M 1103 0251

M 1103 0309 Practice in Spoken German

Intensive conversation practice to improve fluency and increase active vocabulary.

3 s.

M 1103 0310 Advanced Composition

Intensive written exercises to improve command of the German language. Some oral work.

3 s.

M 1103 0315 Translation I

Intensive practice in the skills of translating professional texts from German into English and from English into German.

3 s.

Prerequisite: Instructor's permission

M 1103 0316 Translation II

Continuation of 0315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.

3 s.

Prerequisite: M 1103 0315, instructor's permission

M 1103 0320 Development of the German Language

Background, growth, and structure of the German language. From the Indo-European and Germanic beginnings to the language as spoken today. Historical explanation of modern German grammar.

3 s.

M 1103 0341 German Literature from the Origins to the Reformation

Works representative of the old high German, middle high German and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.

3 s.

M 1103 0342 German Literature from the 16th to the 18th Centuries

Representative works illustrating the trends preceding the classical period.

3 s.

M 1103 0351 German Civilization

Students read and discuss orally and in writing material on German history, folklore and geography as well as contemporary problems of divided Germany: re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.

3 s.

M 1103 0352 German Civilization

Students read and discuss orally and in writing material on German history, folklore and geography as well as contemporary problems of divided Germany: re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.

3 s.

M 1103 0360 Modern German Prose Fiction

Reading and discussion of great German novels and novellas of the 19th and 20th centuries. Their personal and stylistic characteristics of the authors. The literary periods they represent.

3 s.

M 1103 0362 Development of German Poetry

The poetical movements, authors and genres since 1600. The evolution of forms, such as the sonnet and the ode. Analysis and interpretation of poetry.

3 s.

M 1103 0364 German Drama of the 19th and 20th centuries

Reading and discussion of outstanding plays and dramatists from Goethe's death to the present. Interpretation and theories of dramas.

3 s.

M 1103 0375 Study Abroad

An opportunity to gain first-hand knowledge of the historical, social, economic and cultural life of German-speaking Europe. Credit by evaluation.

M 1103 0380 Independent Study in German (Junior Level)

Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. 3 s.h.

Prerequisite: Permission of instructor & department chairman.

M 1103 0381 Independent Study in German (Junior Level)

Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest. 3 s.h.

Prerequisite: Instructor's permission

M 1103 0410 German Grammar Applied Linguistics

A review of the most important structural features of German. Areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification. 3 s.h.

M 1103 0419 Teaching German in Secondary Schools

The aims, objectives and methods used in teaching German in secondary schools: textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification. 3 s.h.

M 1103 0441 The Age of Goethe

The life and works of Goethe: his continuing importance reading from all important genres in which Goethe wrote. 3 s.h.

M 1103 0442 The Age of Schiller

The life and works of Schiller: his continuing importance reading from the dramas, essays and poems. 3 s.h.

M 1103 0460 Senior Seminar

Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper. 3 s.h.

M 1103 0480 Independent Study in German (Senior Level)

Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. 3 s.h.

Prerequisite: Majors only

M 1103 0481 Independent Study in German (Senior Level)

Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest. 3 s.h.

Prerequisite: M 1103 0480 Majors only.

Russian Course Descriptions

I 1106 0101 Beginning Russian I

for students without previous instruction in Russian. The fundamentals of grammar and pronunciation. Lab. work. 3 s.h.

I 1106 0112 Beginning Russian II

for students without previous instruction in Russian. The fundamentals of grammar and pronunciation. Laboratory work. 3 s.h.

Prerequisite: M1106 0101, CRS in similar field.

I 1106 0121 Intermediate Russian I

continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation more advanced conversation. Lab. work. 3 s.h.

Prerequisites: M 1106 0112, CRS in similar field; M 1106 0121, CRS in similar field; I106 0132

M 1106 0132 Intermediate Russian II

Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation. More advanced conversation. Lab work.

3 s.h

Prerequisite: M 1106 0121, CRS in similar field

M 1106 0141 Advanced Russian I

Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.

3 s.h

Prerequisite: M 1106 0132, CRS in similar field; M 1106 0141, CRS in similar field; M 1106 0152

M 1106 0152 Advanced Russian II

Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.

3 s.h

Prerequisite: M 1106 0141, CRS in similar field.

M 1106 0478 Independent Study in Russian

Directed individual study and research in Russian for special students.

1-3 s.h

Prerequisite: Permission of instructor and department chairman.

Humanities Elective Course Descriptions

J 4903 0291 Scandinavian Existentialism the Literary Tradition

A study of the dominant tradition in Scandinavian literature that emerged in the wake of Kierkegaard's penetrating critique of German romanticism, this course will consider the tension between fantasy and reality that informs the works of such writers as H.C. Andersen, J.P. Jacobsen, Ibsen, Strindberg, Hamsun, Lagerloef, Isak Dinesen, M.A. Hansen, Par Lagerkvist, Eyvind Johnson, and Harry Martinson.

3 s.

J 4903 0292 German Literature 1890-Present (In English)

The principal movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required.

3 s.

J 4903 0295 German Expressionism (in English)

Various aspects of German expressionism, encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, and music and film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device.

3 s.

J 4903 0293 Russian Culture & Civilization

The history of Russian literature and culture. Outstanding aspects of Russian civilization. No knowledge of Russian is required.

3 s.

J 4903 0294 Russian Prose and Drama in English

Russian prose and drama from the 18th century to the present day. Representative works Pushkin, Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required.

3 s.

J 4903 0392 The Modern German Novel (In English)

Reading and discussion of selected novels by great 20th century authors who wrote in German. Thomas Mann, Franz Kafka, Hermann Hesse, etc. These works as expressions of the ages they represent. No knowledge of German is required.

3 s.

J 4903 0395 The German Lied (In English)

An interdisciplinary course tracing the German art song, setting up a procedure for the analysis of this mixed art form, evaluating individual efforts by comparing different musical settings of the same poem. Neither knowledge of German nor musical sophistication is necessary.

3 s.

Department of Linguistics

Professor: R. Miller (Chairman)
Assistant Professors: Freed, Seegmiller

The course offerings of the linguistics department reflect the variety and extent of one of the most critical preoccupations of the twentieth century. Interested students can pursue the scientific study of language in degrees of concentration and areas of specialization according to their needs and/or desires.

Since language penetrates virtually every facet of our experience, the department makes available to students majoring or minoring in anthropology, sociology, psychology, philosophy, English, foreign languages, speech, mathematics, education, teaching-English-as-a-second language, etc., courses dealing with the important contributions of linguistics to these disciplines. The inherently interdisciplinary character of linguistics suggests that students in these fields may wish to consider interdisciplinary studies involving some degree of concentration in linguistics.

A major in linguistics consists of 33 semester hours in this field, 12 of which are required courses and 21 free electives in linguistics. A minor in linguistics may be earned with 18 semester hours of study, of which Linguistics 0210 is a requirement.

Students wishing to teach English as a second language may enroll in the 30 semester hour program leading to certification: Second Teaching Field in Teaching English as a Second Language (TESL).

Linguistics Major

Requirements

Select 12 semester hours.

	Semester Hours
N 1505 0210 Introduction to General Linguistics	3
N 1505 0230 Phonetics and Phonological Theory	3
N 1505 0310 Structural Grammar	3
N 1505 0320 Transformational Grammar	3
Electives	21
	REQUIRED TOTAL 33

Program Leading to Certification in Teaching English as a Second Language (TESL) as a Second Teaching Field

This program fulfills the thirty credit comprehensive field endorsement as outlined in the new state of New Jersey certification for Teaching English as a Second Language.

Requirements (Linguistics)

	Semester Hours
N 1505 0210 Introduction to General Linguistics	3 (Prerequisite for all linguistics courses)
N 1505 0220 Structure of American English	3
N 1505 0325 Applied Linguistics	3

Electives

N 1505 0280 Bilingualism	3
N 1505 0330 Sociolinguistics	3
N 1505 0260 Dialectology	3
N 1505 0284 History of the English Language	3
	REQUIRED TOTAL 12

Requirements (Cultural and Cross Cultural Studies)

N 1505 0245 Language and Culture	3
C 0821 0425 Puerto Rican Children in Mainland Schools	3
To fulfill Bilingual/Bicultural Field Experiences	
P 1105 0481 Spanish Community Program, Field Work I	3
	REQUIRED TOTAL 9

Requirements (ESL Methodology)

N 1508 0403	TESL Methods and Materials .....	.....
N 1508 0430	TESL Practicum .....	.....
		REQUIRED TOTAL

Electives

N 1505 0280	Bilingualism .....	.....
N 1505 0330	Sociolinguistics .....	.....
N 1505 0260	Dialectology .....	.....
N 1505 0284	History of the English Language .....	.....
1 2202 0100	Cultural Anthropology .....	.....
A 0800 0400	Foundations of Reading .....	.....
C 0821 0430	Comparative Education .....	.....
	(Educ. in Latin America)	
		REQUIRED TOTAL

TOTAL SEMESTER HOURS REQUIRED

Linguistics
Course Descriptions

N 1116 0101 Elementary Swahili I

For students who wish to start Swahili in college; all four linguistic skills—understanding, speaking, reading and writing

Prerequisite: Majors only

N 1116 0102 Elementary Swahili II

For students who wish to start Swahili in college; all four linguistic skills—understanding, speaking, reading and writing.

N 1116 0201 Intermediate Swahili I

These two courses will develop further all four language skills that the student began to acquire at the elementary level. Reading and writing Swahili will be increasingly emphasized as this second year of study proceeds.

Prerequisite: N 1116 0102 or instructor's permission

N 1116 0202 Intermediate Swahili II

These two courses will develop further all four language skills that the student began to acquire at the elementary level. Reading and writing Swahili will be increasingly emphasized as this second year of study proceeds.

Prerequisite: Instructor's permission

N 1505 0210 Introduction to General Linguistics

The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, syntactic and semantic structure of languages, language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning.

N 1505 0220 Structure of American English

The structure of American English phonology, morphology, syntax; geographical and social dialects; various speaking and writing styles. Traditional, structural and transformational approaches to grammar.

N 1505 0230 Phonetics & Phonological Theory

How sounds are produced in various languages, their acoustic properties, classification and description. Workbook problems based on many languages.

N 1505 0245 Language and Culture

Language in its cultural context. Relationship of linguistic to non-linguistic variables; ethnosemantics; componential analysis, glottochronology, linguistic relativity principle.

N 1505 0250 Language of Propaganda

An examination of the ways in which speakers and writers manipulate language to influence our thinking, with special emphasis on how they exploit the grammatical possibilities of English. Political language, the language of advertising, innuendo, jargon, emotive language, etc. 3 s.h.

N 1505 0255 Women and Language

A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data. 3 s.h.

N 1505 0260 Dialectology

Principles of dialect study application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspectives. 3 s.h.

N 1505 0270 History of Linguistics

Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'schools': structuralism, glossematics, Prague school, London school, tagmemics, stratification grammar, transformational grammar. 3 s.h.

Prerequisite: Instructor's permission

N 1505 0280 Bilingualism

Compound and coordinate bilingualism attitudes, motivation, etc. Functions of languages in multi-lingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English. 3 s.h.

N 1505 0284 The English Language

English from its Indo-European origins up to and including the eighteenth-century grammarians; the Germanic strains; and the morphology of Old and Middle English. 3 s.h.

N 1505 0310 Structural Grammar

Principles of structural grammar, including its offshoot, tagmemics. Word formation and overt sentence structure of familiar and exotic languages. Segmentation and classification of meaningful elements according to specific formal criteria. Workbook problems based on many languages. 3 s.h.

N 1505 0320 Transformational Grammar

Problems of writing grammar that generate all and only the grammatical sentences of a language. Knowledge and performance in language: underlying and surface structures; the theory and goals of linguistic description. Workbook problems from various languages, but emphasis on English. 3 s.h.

1505 0325 Applied Linguistics

Comparison of first and second language acquisition, bilingualism, dialectology, contrastive analysis. 3 s.h.

1505 0330 Sociolinguistics

Relationships between language varieties, their functions in particular settings, and the characteristics of their speakers. Emphasis on black English. The role of second languages within a society; pidgins, creoles, lingua francas, diglossia, etc. 3 s.h.

1505 0340 Linguistics and Literary Analysis

Contribution of linguistics to our understanding of the poetic process. Writing 'literary grammars' that count for our intuitions about the poetic or prose style author, literary work or genre. Contributions of transformational grammar to the problems of style; transformational grammar and metrics. 2 s.h.

1505 0370 Comparative and Historical Linguistics

Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change. 3 s.h.

1505 0401 Methods of Teaching Foreign Language in Elementary School

Procedures for teaching children in elementary school to understand a spoken foreign language, and to

speak it with a correct pronunciation; exposing children to a foreign culture by means of songs, stories, etc.

2

N 1505 0410 Linguistics and Philosophy

The joint contribution of generative grammar and analytic philosophy toward solving problems shared by linguistics and philosophy. Theory of performatives; the problems of meaning, reference, synonymy, necessity, analyticity; the innateness hypothesis.

3

N 1505 0419 The Teaching of Foreign Languages in Secondary Schools

New approaches to foreign language teaching. Techniques and procedures for teaching all four language skills. Enrichment through audio-visual and electronic aids. Collateral reading, less planning, and organizing of teaching materials required.

3

N 1505 0420 Mathematical Linguistics

Formal models of generative grammars and abstract automata. The application of set theory, symbolic logic, theory of relations, Boolean algebra, etc., to the study of language.

3

N 1505 0430 Field Methods

Collecting linguistic data from an informant; human factors in field work; qualifications of informant; elicitation techniques.

3

N 1505 0440 Structures and Origins of the Romance Languages

The linguistic features of the modern Romance languages; their emergence from a common ancestor; continuous differentiation, and similarities and differences 2000 years later.

3

N 1505 0441 Comparative Study of the Evolution of the Romance Languages

Processes of linguistic change as established in the Romance field by the use of the comparative method; the reconstruction of proto-Romance; sample downtracing to the modern forms.

3

N 1505 0450 Selected Topics in Linguistics

Study of special problems and topics in linguistics. Topics announced each semester.

3

Prerequisite: N 1505 0210 or Instructor's permission

N 1505 0451 Selected Topics in Linguistics

Study of special problems and topics in linguistics. Topics announced each semester.

3

Prerequisite: N 1505 0210 or Instructor's permission

N 1505 0478 Independent Study

This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.

1-3

Prerequisite: N 1505 0210, instructor's permission

N 1505 0479 Independent Study

This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.

3

Prerequisite: N 1505 0210, instructor's permission

N 1505 0480 Linguistics in Education and Society

The course is intended to acquaint students involved in language education of any sort with the applications and implications of linguistics for education and for understanding the functioning of language in society.

3

N 1508 0111 English for Speakers of Other Languages (ESOL I)

For students who are not native speakers of English. Language majors who have a weakness in English will be required to take ESOL I and ESOL II. ESOL I develops all four language skills, especially listening and speaking intensive practice in pronunciation and vocabulary-building.

3

N 1508 0112 English for Speakers of Other Languages II (ESOL II)

Continued development of listening, speaking, reading and writing, with special emphasis on writing.

Each student prepares a research paper.

3 s.h.

Prerequisite: N 1508 0153

N 1508 0151 Intensive ESOL I

The course aims to develop all four language skills: listening, speaking, reading, writing. This course will emphasize listening comprehension and speaking. Language laboratory is required. This class will meet twice a week for two-and-a-half hours each session, and two hours language laboratory practice each session. The same instructor will conduct both sessions.

6 s.h.

Prerequisite: Comprehensive English language test (CELT) for diagnostic and placement purposes.

N 1508 0152 Intensive ESOL II

The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. This class will meet once a week for two-and-one-half-hours and two hours laboratory practice.

3 s.h.

Prerequisite: N 1508 0151

N 1508 0153 Intensive ESOL III

The general aim of this course is to bring non-native speakers of English to a level of competency at which they can successfully compete in the regular college classroom with native speakers of English in the basic skills of reading and writing standard English. The emphasis will be on written skills.

Prerequisite: N 1508 0111 or L 1508 0112

3 s.h.

N 1508 0154 Intensive ESOL IV Advanced Composition

Prepares non-native speakers of English for the writing of academic research papers, selecting and writing the topic, library research methods, documentation, preparing and revising a rough draft.

Prerequisite: N 1508 0158

3 s.h.

N 1508 0403 Methods and Materials of TESL

The basic audio-lingual approach, with applications and implications for specific ESL situations (in particular the large New Jersey urban population of Spanish-speaking people).

3 s.h.

N 1508 0430 Field Experience in Teaching English as a Second Language

Opportunity to teach English as a second language will be arranged for each student in the program.

1-3 s.h.

N 2001 0250 Psycholinguistics

The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas for the explication of problems in grammar, cognitive structure, semantic meaning and speech production and comprehension.

3 s.h.

Prerequisite: N 2001 0105, Instructor's permission

N 2202 0463 Anthropological Linguistics

Linguistic systems through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages; the relationship of linguistic structure and theory to cultural systems individual student field experience; readings and lectures.

3 s.h.

Prerequisite: N 2202 0100 or N 1505 0210

Department of Philosophy and Religion

Distinguished Service Professor: Richardson

Professor: Lipman

Associate Professors: Bridges (Chairman), Fleischner, Johnson, Streetman

Assistant Professors: Aman, Benfield, Kogan, McCollum, Stanton

Critical reflection on one's ultimate commitments and beliefs—one's values and meanings, modes existing and knowing—is integral to the humanistic pursuit of all areas of the curriculum. The department's offerings are designed to foster such reflection and to function as interdisciplinary complement to such concentrations as literature, history, the social and physical sciences and fine arts. Courses in philosophy and religion may be taken as electives by majors in all departments and schools.

Courses under the 300-level may be elected without prerequisite unless otherwise stipulated. All other courses normally demand as prerequisite at least one previous course in the area.

Options for concentration within the department meet various needs, with majors in either philosophy or religion-and-philosophy as preparation for graduate or professional work. The specifically required courses and the minimum number and distribution of departmental electives for these majors are indicated below. Academic minors (18 semester hours) are offered in either philosophy or religion. The student may, of course, elect additional courses in the department beyond the number required.

Philosophy Major

	Semester Hours
I. Fields of Philosophy (200 level)	1
II. History and Movements	
O 1509 0326 Ancient Philosophy	
O 1509 0328 Descartes to Kant	
Electives (History & Movements: 300 level)	
III. Select one: Seminar in Philosophy	
O 1509 0424, 0425, 0426, or 0427	
	REQUIRED TOTAL
	3

Religion and Philosophy Major

Requirements

	Semester Hours
Religious Traditions and Literatures	
O 1510 0100 Religions of the World	
Area Elective (See list below)	
Religious Thought and Philosophy	
O 1510 0235, 0236 Philosophical Backgrounds, I, II	3 e
Religion, Cultures and Society	
Area Electives (See list below)	
Seminar in Religious Studies	
(O 1510 0429, 0459, 0489 or 0490)	
Electives in Religious Studies	
	REQUIRED TOTAL
	1

Area Electives in Religious Studies

For the convenience of majors, the following table lists the numbers of the courses that apply each area. For titles and descriptions, see "Religion Courses."

Requirements

- A. Religious Traditions and Literatures
O 1510 0100, 0115, 0200, 0205, 0215, 0216, 0220, 0225, 0276, 0315, 0320, 0329, 0429
- B. Religious Thought and Philosophy
O 0510 0130, 0230, 0235, 0236, 0240, 0244, 0245, 0250, 0251, 0253, 0255, 0340, 0341, 0350, 0359, 0459
- C. Religion, Cultures and Society
O 1510 0260, 0265, 0270, 0275, 0280, 0281, 0285, 0375, 0380, 0389, 0489

Philosophy Minor

Requirements

	Semester Hours
Introduction to Philosophy (O 1509 0100, optional)	0
Fields of Philosophy (200-level)*	6-
History and Movements in Philosophy (300-level)*	6-
	REQUIRED TOTAL
	12

*The department recommends that the student consult with an advisor in the department in choosing electives for the minor in order that the selection may be most consistent with the student's overall educational plans and needs.

Religion Minor Requirements

Introduction to Religion (O 1510 0130)	3
Seminar (O 1510 0429, 0459, 0489, 0490)	3
Electives in Religion (O 1510)	12
REQUIRED TOTAL	18

Philosophy Course Descriptions

O 1509 0100 Introduction to Philosophy

The nature, scope, methods, basic problems and major types of philosophy. 3 s.h.

O 1509 0105 History of Philosophy

Major issues, movements and thinkers in the development of philosophy in the West. 3 s.h.

O 1509 0202 Logic

The forms of deductive and inductive argument in traditional logic the fundamentals of modern formal logic. 3 s.h.

O 1509 0203 Ethics

The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories. 3 s.h.

O 1509 0204 Social-Political Philosophy

The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals. 3 s.h.

O 1509 0206 Contemporary Aesthetics

Recent investigations into the function of art in human experience; the nature of aesthetic meaning, love, creation and enjoyment. 3 s.h.

O 1509 0207 Philosophies of Art

The major philosophies of art in the history of western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period. 3 s.h.

O 1509 0210 Theories of Knowledge and Experience

The major issues and theories concerning the relationship between knowledge, experience and reality. 3 s.h.

O 1509 0215 Philosophical Theories of History

Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation, the objectivity of historical knowledge, historical causation and determinism. 3 s.h.

Prerequisite: CRS in similar field

O 1509 0220 Metaphysics

An examination of major philosophical theories concerning the nature of reality. 3 s.h.

O 1509 0230 The Philosophy of Language

The major philosophical theories concerning the nature of language in its relation to thought, reality, and communication. 3 s.h.

O 1509 0235 Philosophy of Religion

The nature and shape of religious experience criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death. 3 s.h.

O 1509 0240 Philosophy of Science

The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues. 3 s.h.

O 1509 0245 Philosophy of Law

An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

3 s

O 1509 0261 Morals and Medicine

A study of moral decision making in regard to specific moral problems arising in such areas as contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

3 s

O 1509 0262 Philosophic Issues Law & Justice

An examination of current philosophical accounts of both distributive and retributive justice. Close attention will be paid to such specific issues as the right of society to legislate its common morality, use of behavior modification techniques on criminal offenders and the restoration of capital punishment.

3

O 1509 0263 Ethics and Business

Study of meaning of morality in modern world of business. Course contains balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

3

O 1509 0290 Fields of Philosophy: Selected Topics

Selected study of major fields in philosophy. Topics announced each semester.

3

O 1509 0291 Fields of Philosophy: Selected Topics

Selected study of major fields in philosophy. Topics announced each semester.

3

O 1509 0292 Fields of Philosophy: Selected Topics

Selected study of major fields in philosophy. Topics announced each semester.

3

O 1509 0293 Fields of Philosophy: Selected Topics

Selected study of major fields in philosophy. Topics announced each semester.

3

O 1509 0326 Ancient Philosophy

The major philosophical systems and movements from the pre-Socratics to Plotinus with special emphasis on Plato and Aristotle.

3

O 1509 0327 Medieval Philosophy

The development of philosophy from Augustine to Ockham.

3

O 4999 0490 Teaching

This course is designed to equip teachers with the skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials in philosophy for children, the history of philosophical ideas which form an essential component of the approach. The nature of formal and informal reasoning and an analysis of educational issues which are affected by the introduction of philosophy into the classroom. (This course will not count toward the undergraduate major in philosophy.)

9

O 1509 0328 Descartes to Kant

The major philosophical systems and movements from the renaissance to Kant.

3

O 1509 0329 Nineteenth Century Philosophy

The major philosophical systems and movements of the nineteenth century.

3

O 1509 0330 American Philosophy

The major American philosophers and philosophical movements with emphasis on Peirce, James, Royce, and Dewey.

3

O 1509 0335 Contemporary Philosophers

The major movements in contemporary philosophy, studied through writings of leading exponents.

3

O 1509 0336 Existentialism

The major themes and concepts of existentialism in selected writings of the existentialist philosoph

3

O 1509 0337 Analytic Philosophy

The development of the analytic tradition in twentieth century philosophy; the logical and linguistic techniques employed.

3 s.h.

O 1509 0339 Marx and Marxism

The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist Marxism are considered briefly.

3 s.h.

O 1509 0340 Oriental Philosophy

Philosophical interpretations of experience and reality in representative movements of eastern thought.

3 s.h.

O 1509 0390 Periods and Movements Selected Topics

Topics announced each semester.

3 s.h.

O 1509 0391 Periods and Movements Selected Topics

Topics announced each semester.

3 s.h.

O 1509 0392 Periods and Movements Selected Topics

Topics announced each semester.

3 s.h.

O 1509 0393 Periods and Movements Selected Topics

Topics announced each semester.

3 s.h.

1509 0424 Seminar in Philosophy

Operative research seminars in major movements, problems, philosophers or works. Topic announced each semester. Permission of instructor required.

3 s.h.

Prerequisite: O 1509 0424, instructor's permission

1509 0425 Seminar in Philosophy

Operative research seminars in major movements, problems, philosophers, or works. Topic announced each semester.

3 s.h.

Prerequisite: O 1509 0425, instructor's permission

1509 0426 Seminar in Philosophy

Operative research seminars in major movements, problems, philosophers, or works. Topic announced each semester.

3 s.h.

Prerequisite: O 1509 0426, instructor's permission

1509 0427 Seminar in Philosophy

Operative research seminars in major movements, problems, philosophers, or works. Topic announced each semester.

3 s.h.

Prerequisite: O 1509 0427, instructor's permission

O 509 0447 Independent Study in Philosophy

Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

3-12 s.h.

Prerequisite: Work in field

O 509 0448 Independent Study in Philosophy

Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

3-12 s.h.

O 509 0449 Independent Study in Philosophy

Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

3-12 s.h.

O 509 0450 Independent Study in Philosophy

Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

3-12 s.h.

Religion Course Descriptions

O 1510 0100 Religions of The World

The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness.

3

O 1510 0115 Sacred Literature

The interpretation of religious literature, broadly conceived as including story form, epic narrative, "secular" tales and religious poetry, as well as canonical texts.

3

O 1510 0130 Introduction to Religion

An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment.

3

O 1510 0200 Primitive Religions and Comparative Mythologies

A study of primitive, archaic and folk religions in their ritual practices and religious myths, and of world religions through the mythological motifs which they share with archaic religions.

3

O 1510 0205 Oriental Religions

The cultural and theological bases for the faith and practice of major eastern religions—Buddhism, Confucianism, Hinduism, Taoism.

3

O 1510 0210 History of Western Religion

The theological and ecclesiastical developments of the major living religions of the western world. Emphasis on Judaism and Christianity.

3

O 1510 0215 Old Testament Genesis to Joshua

The evolution of the ancient Hebrew world-view as developed through the Bible in response to historical events and ongoing religious experience of the people of Israel.

3

O 1510 0216 Old Testament Joshua to Daniel

The history and theology of Israelite religion as seen in the Biblical books covering the middle and late period (1150-165 B.C.E.)

3

O 1510 0220 New Testament: Jesus and the Gospels

The evolution of the Christian scriptures from the Gospels through the history of the early church, with emphasis on themes on major shapers of Christian faith.

3

O 1510 0221 New Testament: Paul and the Early Church

The writings of Paul, John and other figures in the apostolic period of the early church.

3

O 1510 0225 Islamic Religious Traditions

The historical origins of Islam, the emergence and development of various strands of religious tradition and their impact on the modern world.

3

O 1510 0230 Oriental Philosophy

Philosophical interpretations of experience and reality in representative movements of eastern thought.

3

O 1510 0235 Philosophical Backgrounds of Western Religion I

The inter-relationships of western religion with philosophy from the presocratics through the middle ages. The emergence of classical fields of philosophy.

3

O 1510 0236 Philosophical Backgrounds of Western Religion II

The inter-relationships of western religion with philosophy in the renaissance, enlightenment and modern period; the emergence of the autonomous spirit of criticism.

3

O 1510 0240 Contemporary Religious Thought

The current trends and issues in religious thought as developed in the writings of contemporary theologians.

3

O 1510 0244 Philosophy of Religion

A philosophical examination of religion. It includes the nature and shape of religious experience and

3

for meaning within religious thought and language metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death. 3 s.h.

O 1510 0245 Religious Language & Experience

Contemporary philosophical investigations of the nature and function of religious discourse in the context of religious experience and belief. 3 s.h.

O 1510 0250 Systematic Theology

The major doctrines of creative faith in the Judeo-Christian tradition. 3 s.h.

O 1510 0251 Classics of Western Religious Thought

Selected works of significant theologians of the western tradition on issues such as the nature of God, Christology, soteriology, ecclesiology, theodicy, etc. 3 s.h.

O 1510 0253 Ethics

The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories. 3 s.h.

O 1510 0255 Social & Political Philosophy

The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals. 3 s.h.

O 1510 0260 Religion in America

The growth and development of various religious movements—Protestant, Catholic, Jewish, and sectarian minorities—from colonial times to the present. 3 s.h.

O 1510 0265 Religion & Moral Issues

Moral issues as currently discussed by representative thinkers of the major western religious traditions. 3 s.h.

O 1510 0270 Religion & Social Change

The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development. 3 s.h.

O 1510 0275 Religion and Culture

The inter-relation of religion and culture in the formulation of human values and views, life-styles and institutions. 3 s.h.

O 1510 0276 Religions of the North American Indians

An introduction to the religious traditions and spirituality of the American Indian peoples. 3 s.h.

O 1510 0280 Religion & Psychology I

The views of religious man reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian implications of psychology for critical religious thought. 3 s.h.

O 1510 0281 Religion & Psychology II

Selected psychological investigations and/or theories of religious phenomena the implications for specific and constructive religious thought. 3 s.h.

O 1510 0285 Women in Religion

The roles which have been held by women in the various religious traditions of the world. 3 s.h.

O 1510 0315 Judaism & Early Christian Thought

The Jewish and Christian foundations of western religious thought from the second to the fifth centuries of the common era. 3 s.h.

O 1510 0320 Medieval and Reformation Religious Thought

Major movements and thinkers within Judaism, Islam and the various branches of Christianity, from Augustine to the counter-reformation. 3 s.h.

O 1510 0329 Selected Study in World Religions

Topics announced each semester.

Prerequisite: CRS in similar field

3 s.h.

O 1510 0340 Religion and Modern Critical Thought 1600-1900

The origin and development of the religious spirit, in the light of modern critical thought, from the rise of science to the end of the nineteenth century.

3 s

O 1510 0345 Modern Jewish Religious Thought

Contemporary Judaism studied against the background of 19th and early 20th century Jewish thought
Prerequisite: CRS in similar field

3 s

O 1510 0350 Historical Thought in Christian Theology 1900-1945

The impact of modern historical thought on Christian faith its critical expression in major theological
of the twentieth century.

3 s

Prerequisite: CRS in similar field

O 1510 0359 Selected Study in Religious Thought

Topics announced each semester.

3 s

Prerequisite: CRS in similar field

O 1510 0375 Heresy and Heterodoxy

Movements such as gnosticism, mysticism and sectarianism studied in their relationship to dominant orthodoxy, how they have been labeled heresies and have functioned within a "little tradition" of their own.

3 s

O 1510 0380 The Holocaust Religious Perspectives

A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.

3 s

O 1510 0389 Selected Study in Religion and Culture

Topics announced each semester.

3 s

Prerequisite: CRS in similar field

O 1510 0390 Selected Study in Religion

Topics announced each semester.

3 s

O 1510 0397 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of cumulative average in at least 9 semester hours of religion.

3-12

O 1510 0398 Independent Study in Religion

Directed independent study and research in religious studies. Open to students with a minimum of cumulative average in at least 9 semester hours of religion.

3-12

O 1510 0429 Seminar in World Religions

Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

3 s

Prerequisite: Instructor's permission

O 1510 0459 Seminar in Religious Thought

Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

3 s

Prerequisite: Instructor's permission

O 1510 0489 Seminar in Religion & Culture

Cooperative research seminars in major movements, problems, theologians.

3 s

Prerequisite: Instructor's permission

O 1510 0490 Seminar in Religion

Cooperative research seminar in major movements, problems, theologians.

3 s

Prerequisite: Instructor's permission

O 1510 0497 Independent Study in Religion

Directed independent study and research in religious studies open to students with a minimum of cumulative average in at least 9 semester hours of religion.

3-12 h

O 1510 0498 Independent Study in Religion

Directed independent study and research in religious studies open to students with a minimum of cumulative average in at least 9 semester hours of religion

3-12 h

Department of Spanish and Italian

Professors: Fulton (Chairman), Possiedi

Associate Professors: Barbeito, Bolletino, Levine, Minc, Rambaldo, Susi

Assistant Professors: Battista, Engelbert, Frankenthaler, Hwang, McCormick, Richards, Zahner

Instructors: Miressi

The Department of Spanish and Italian develops sound scholarship by providing the student with linguistic fluency and awareness and understanding of Italian and Hispanic cultures through the study of their languages, literatures and cultural histories.

Majors in Italian or Spanish choose an area of concentration in the Italian language, literature and culture; the Spanish language; Peninsular Spanish literature and culture; or Spanish-American literature and culture as well as courses in translating and interpreting.

Departmental majors are urged to spend a year, a semester or a summer studying in Italy or a Spanish-speaking country. This study should be planned for the junior year; students must obtain the permission of the department chairman. Upon returning to the College, they must present a transcript from the institution abroad with a minimum grade equivalent to a C in all courses submitted for credit. The departmental committee for Study Abroad will make arrangements regarding institution, courses, credit and final evaluation.

Non-majors in the department are also encouraged to participate in the Study Abroad program on space available basis.

Majors who intend to pursue graduate studies are urged to acquire proficiency in at least one additional Romance language and to take the Graduate Record Examinations in their senior year.

Students may also elect 18-hour minors in Italian or Spanish, 24-hour second teaching fields in Italian or Spanish, and a 24-hour interdisciplinary minor in Spanish Community Affairs. Courses in the Portuguese language are also available.

Required for all Spanish and Italian majors.

N 1505 0210 Introduction to General Linguistics 3 semester hours

Spanish Major

Requirements

24 semester hours

	Semester Hours
P 1105 0141 Spanish Grammar and Composition I	3
P 1105 0142 Spanish Grammar and Composition II	3
P 1105 0150 Introduction to Hispanic Literature	3
P 1105 0151 Masterpieces of Spanish Literature I	3
P 1105 0152 Masterpieces of Spanish Literature II	3
P 1105 0161 Masterpieces of Spanish-American Literature I	3
P 1105 0162 Masterpieces of Spanish-American Literature II	3
P 1105 0260 Spanish Cultural History	3
P 1105 0270 Spanish-American Cultural History	3
REQUIRED TOTAL	
	24

Electives

12 semester hours to include at least one course from the area of literature and one from the area of language.

Peninsular Spanish Literature

P 1105 0340 The Middle Ages in Spain	3
P 1105 0365 Spanish Novel of the 20th Century	3
P 1105 0369 The Drama of the Golden Age	3
P 1105 0371 Spanish Poetry and Drama of the 19th Century	3
P 1105 0372 Spanish Prose of the 19th Century	3
P 1105 0460 El Quijote	3
P 1105 0465 Spanish Theater of the 20th Century	3

Spanish-American Literature

P 1105 0265	The Spanish-American Novel
P 1105 0367	Spanish-American Essayists
P 1105 0368	Contemporary Spanish-American Short Story
P 1105 0370	Contemporary Spanish-American Poetry
P 1105 0466	Contemporary Spanish-American Theater
P 1105 0471	Contemporary Trends in the Spanish-American Novel
P 1105 0472	Puerto Rican Literature and Thought

Language, Translating, and Interpreting

P 1105 0209	Introduction to Phonetics
P 1105 0221	Commercial Spanish
P 1105 0309	Spanish Conversation*
P 1105 0350, 0351	Translating I, II
P 1105 0410	Spanish Grammar for Teachers
P 1105 0445	Evolution of the Spanish Language
P 1105 0450	Consecutive and Simultaneous Interpreting
P 1105 0452	Translating III

General Electives

P 1105 0221	Cuban Cultural History
P 1105 0345	Children's Literature of the Hispanic World
P 1105 0360	Spanish Community Program
P 1105 0375	Study Abroad
P 1105 0470	Senior Seminar
P 1105 0475	Seminar on Spanish Culture in the U.S.
P 1105 0480	Independent Study

Credit by evaluation

*Upon recommendation by the Committee of Teacher Admissions this course may be waived and a major elective substituted.

Teacher Certification

Students who desire teacher certification must elect the following courses

P 1105 0209	Introduction to Spanish Phonetics
P 1105 0410	Spanish Grammar for Teachers
P 1105 0419	The Teaching of Spanish in Secondary Schools

Second Teaching Field in Spanish

P 1105 0141	Spanish Grammar and Composition I
P 1105 0142	Spanish Grammar and Composition II
P 1105 0209	Introduction to Phonetics
P 1105 0260	Spanish Cultural History, or
P 1105 0270	Spanish-American Cultural History
P 1105 0309	Spanish Conversation
P 1105 0410	Spanish Grammar for Teachers

REQUIRED TOTAL

Electives in Literature Courses:

REQUIRED TOTAL FOR SECOND FIELD

18

24

Additional requirement

If the student has not studied a teaching methods course in a foreign language, he/she must in addition, 1105 0419, The Teaching of Spanish in Secondary Schools (3 s.h.).

Spanish Minor Requirements

P 1105 0141	Grammar and Composition I
P 1105 0142	Grammar and Composition II
P 1105 0152	Masterpieces of Spanish Literature II
P 1105 0162	Masterpieces of Spanish-American Literature II
P 1105 0260	Spanish Cultural History or

Semester H

P 1105 0270	Spanish-American Cultural History	3
P 1105	Literature Elective	3
REQUIRED TOTAL		18

Spanish Community Affairs Minor

Requirement

Spanish Department

Semester Hours

1105 0472	Puerto Rican Literature and Thought	3
-----------	-------------------------------------	---

Electives

A. Select one course from three different departments

Education Department

0821 0440 Sociological Foundations of Education or

0821 0441 Urban Politics and Education

Political Science Department*

2207 0401 American Constitutional Law: Civil Rights and Liberties or

2207 0414 Law and Society: Civil Law

Psychology Department

2201 0280 Introduction to Community Psychology or

2201 0335 Social Psychology

Sociology Department

2008 0202 Race and Ethnic Relations or

2208 0311 Urban Sociology

REQUIRED TOTAL	9
----------------	---

B. Select one

Education Department

0821 0445 Puerto Rican Children in Mainland Schools or

Political Science Department

2207 0308 Ethnic Politics in America or

Psychology Department

2201 0380 Psychology and Community Services or

Sociology Department

2208 0341 Sociology of Poverty and Welfare or

Spanish Department

1105 0475 Seminar on Spanish Community in the U.S.A.: Chicanos, Puerto Ricans and other groups

REQUIRED TOTAL	3
----------------	---

Field Work

Select three

Spanish Department

1105 0360-01 Spanish Community Program

1105 0360-02 Internship in Law

1105 0481 Field Work I

1105 0482 Field Work II

1105 0483 Field Work III

REQUIRED TOTAL	9
----------------	---

MINOR REQUIRED TOTAL	24
----------------------	----

* Students who are not bilingual will be accepted into the program with the understanding that they are going into field work or electing Spanish courses they will become proficient in the Spanish language. For this purpose there are intensive training courses in the Spanish department.

Credits earned in the Spanish Community Program (1105 0360-01) may be used as: bilingual cultural experiences for TESL majors; basis for independent study electives in psychology and/or sociology; minority groups requirement; three credits of electives for Spanish majors.

Spanish Course Descriptions

P 1105 0101 Beginning Spanish I

For students with no previous Spanish. Training in understanding, speaking and writing the language.

3 h

P 1105 0108 Practical Spanish for Hospital Personnel

This course provides medical personnel with the ability to communicate with their Spanish-speaking patients and clients. The student learns to ask pertinent questions regarding health problems, to give basic instructions and directions, to be able to carry on limited conversation and to be able to read and write Spanish. Not for major credit.

3 h

P 1105 0110 Practical Spanish for Law Enforcement Officers

Course designed to provide law enforcement officials and persons in related areas with a basic knowledge of the Spanish language as it pertains to the performance of their duties in the Hispanic community. Completion of the course will give the student a knowledge of Spanish which will enable him/her to deal with those immediate problems where the use of English is not possible. Not for major credit.

3 h

P 1105 0112 Beginning Spanish II

Training in understanding, speaking and writing the language.

3 h

Prerequisite: P 1105 0101

P 1105 0120 Comprehensive Review of Beginning Spanish

For students who have studied one or two years of high school Spanish and who score below 450 on College Board Achievement Test. Basically the first year course telescoped into one semester.

Prerequisite: CRS in similar field

3 h

P 1105 0121 Intermediate Spanish I

A continuation of the Beginning Spanish courses to strengthen the four language skills.

3 h

Prerequisites: Spanish 0112 or 0120 or equivalent for 0121 Spanish 0121 or equivalent for 0132

P 1105 0132 Intermediate Spanish II

A continuation of the beginning Spanish courses to strengthen the four language skills.

3 h

Prerequisite: P 1105 0112 or P 1105 0120 or P 1105 0121, CRS in similar field

P 1105 0135 Advanced Practice in Spanish For Non-Majors

This course provides students who are not Spanish majors with a program which enables them to perfect their command of both written and spoken Spanish beyond the intermediate II level. The course is unique in that it places equal stress upon speaking, reading and writing in order to enable the student to function effectively with Spanish speaking people in the student's chosen profession. Emphasis is placed upon the more practical aspects of language learning.

3 h

Prerequisite: P 1105 0132

P 1105 0140 Comprehensive Review of Intermediate Spanish

For students with three or four years of high school Spanish with scores between 500 and 600 on College Board Achievement Test. Basically the two intermediate courses telescoped into one semester.

3 h

Prerequisite: P 1105 0112

P 1105 0141 Spanish Grammar & Composition I

This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for all majors.

3 h

Prerequisite: P 1105 0132 or P 1105 0140

P 1105 0142 Spanish Grammar and Composition II

This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.

3 h

Prerequisite: P 1105 0141

P 1105 0150 Introduction to Hispanic Literature

The course proposes to identify the characteristics of various literary genres and define the inner workings of a piece of literature. Selections from the epic poem, the ballad, drama, satirical essays, philosophical novels, etc., will be used to enable the student to define the uniqueness of each genre. Certain forms of literature such as the Jarcha, Romance, Zerjel, peculiar to the Spanish literary tradition will also be analyzed. The role of the author, the uses of images and irony, the narrative point of view, etc., will be stressed as essential to literary criticism.

3 s.h.

Prerequisite: P 1105 0132

P 1105 0151 Masterpieces of Spanish Literature I

The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the Medieval Period to XVIII century. Required for majors.

3 s.h.

Prerequisite: P 1105 0132

P 1105 0152 Masterpieces of Spanish Literature II

The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from XVIII century to the present. Required for majors.

Prerequisite: 1105-0151 or equivalent.

3 s.h.

P 1105 0161 Masterpieces of Spanish-American Literature I

The general aim of the course is to give the student a general and comprehensive understanding of Spanish-American Literature from pre-Columbian times to the latter part of the nineteenth century. Required for majors.

3 s.h.

Prerequisite: 1105-0132 or equivalent.

P 1105 0162 Masterpieces in Spanish-American Literature II

The general aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from the beginning of Modernism to the contemporary period. Required for majors.

3 s.h.

Prerequisite: P 1105 0161

P 1105 0209 Introduction to Spanish Phonetics

Spanish phonetics and phonemics theory and practice comparative analysis of Spanish and English phonology. The language laboratory is used extensively.

3 s.h.

Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0221 Commercial Spanish

For students interested in the business field. Styles of letter writing, vocabulary peculiar to business; legal terminology. Emphasis on written fluency and expression.

3 s.h.

Prerequisite: P 1105 0141

P 1105 0260 Spanish Cultural History

The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.

3 s.h.

Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0265 The Spanish-American Novel

Development of the Spanish-American novel up to 1945.

3 s.h.

Prerequisites: Spanish 0161 and 0162 or equivalent.

P 1105 0270 Spanish-American Cultural History

Development of the politics, art and philosophy of the Spanish-speaking nations of the Western Hemisphere. Required for majors.

3 s.h.

Prerequisite: Spanish 0132 or 0140 or equivalent.

P 1105 0280 Cuban Cultural History

Survey of the Cuban cultural development from the time of its discovery up to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba.

3 s.h.

Prerequisite: P 1105 0132

P 1105 0309 Spanish Conversation

Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events gives a competence in Spanish as an instrument of oral expression. Classes limited to students.

Prerequisite: P 1105 0141, CRS in similar field

3 : 1

P 1105 0340 Middle Ages in Spain

Medieval Spanish masterpieces will be selected as basic topics around which the background that made them possible will be studied in an effort to bring to light the intricate relationship between outstanding men of letters and their times.

3

Prerequisite: P 1105 0151 and 0152

3

P 1105 0345 Children's Literature of Hispanic World

A study of the children's literature of Spain and Spanish America. Readings from traditional children's songs, poems stories, plays and from works written for children by distinguished Spanish authors such as Benavente, Gabriela Mistral, and Garcia Lorca.

3

Prerequisites: Masterpieces courses or their equivalents, P 1105 0152 and 0162

3

P 1105 0350 Translating I

Techniques of translating Spanish-English, English-Spanish. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.

3

Prerequisite: P 1105 0141, P 1105 0310

3

P 1105 0351 Translating II

Techniques of translating Spanish-English, English-Spanish. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.

3

Prerequisite: P 1105 0350

3

P 1105 0352 Practicum in Translating

This course is designed to provide students with the practical experience of translating in some professional situations under faculty supervision. Translating work may include journalistic materials, such as the monthly edition of the Montclarion, publications of the Life Skills Center, etc.

3 h

Prerequisite: P 1105 0350

3

P 1105 0360 Hispanic Community Program

Interdisciplinary approach to field work in underprivileged area of the Spanish-speaking community in New Jersey. Open to anyone in the college with working knowledge of Spanish. 9 semester hours will be given by the Spanish department and two other departments selected by the student.

3 h

Prerequisite: Instructor's permission

3

P 1105 0365 Spanish Novel of the 20th Century

The modern novel in Spain beginning with the generacion del '98.

3 h

Prerequisite: P 1105 0151 and 0152, CRS in similar field

3

P 1105 0367 Spanish-American Essayists

The role of the essay in Spanish-American life and culture. Studies of selected modern essays.

3 h

Prerequisite: Spanish 0162 or equivalent

3

P 1105 0368 Contemporary Spanish-American Short Story

Trends in the contemporary short story. The short story as an important genre in Spanish-American letters.

3

Prerequisite: P 1105 0162

3

P 1105 0369 The Drama of The Golden Age

Representative dramatists of the Siglo de Oro. Lope de Vega, Tirso de Molina, Ruiz de Alarcón, Calderon de la Barca.

3 h

Prerequisite: P 1105 0151 and 0152, CRS in similar field

3

P 1105 0370 Contemporary Spanish-American Poetry

Leading 20th century poets beginning with Dario, with a special emphasis on modernismo.

3 h

Prerequisite: P 1105 0162

3

P 1105 0371 Spanish Poetry & Drama of the 19th Century

A critical study of the main works of this century beginning with Duque de Rivas and Espronceda.

3

through Echegaray and Galdos.	3 s.h.
Prerequisite: P 1105 0151 and 0152	
P 1105 0372 Spanish Prose of the 19th Century	
The main works in romanticism, realism and naturalism in 19th century Spain.	3 s.h.
Prerequisite: P 1105 0151 and 0152	
P 1105 0375 Study Abroad	
Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of an Hispanic Country.	Credit by evaluation
Prerequisite: Permission of department chairman	
1105 0390 20th Century Spanish-American Prose I	
This course deals with the analysis of the main literary currents as expressed in the works of major prose writers of the first half of this century. Stress will be placed on the study of the development of the novel, short story, theater and essay until 1945.	3 s.h.
Prerequisite: P 1105 0162	
1105 0391 20th Century Spanish-American Prose II	
This course is a continuation of Spanish-American Prose I. Perspective of the four prose genres. Among the important topics of discussion will be the Spanish-American new novel. Another major area to be studied is the development of the theatre after 1945.	3 s.h.
Prerequisite: P 1105 0162	
1105 0410 Spanish Grammar for Teachers	
This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish.	3 s.h.
Prerequisite: P 1105 0142, CRS in field, senior standing	
1105 0419 The Teaching of Spanish in Secondary Schools	
Mores and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, views, realia, discussions, lesson planning and demonstrations, and organization of material for student teaching.	3 s.h.
Prerequisite: Senior standing	
1105 0445 The Evolution of the Spanish Language	
The development of the Spanish language from its origin to the present day, within the framework of other neo-Latin languages, the phonological and structural changes which occurred through historical development.	3 s.h.
Prerequisite: P 1105 0142, CRS in similar field	
1105 0450 Consecutive and Simultaneous Interpretation	
This course is designed to teach the student the specialized techniques of oral interpretation, both consecutive and simultaneous, to help prepare him to pursue the career of a professional translator and interpreter.	3 s.h.
Prerequisites: 1105 0350 and 0351, translating I and II	
1105 0452 Translating III	
Continuation of Translating II. The student will translate a text of 50 to 100 pages in his or her specific field of interest for which there exist no published translation.	3 s.h.
Prerequisite: P 1105 0350, P 1105 0351	
1105 0460 El Quijote	
Literary and social background, structure, themes and style of <i>El Quijote</i> as a masterpiece.	3 s.h.
Prerequisite: Spanish 0151 and 0152 or equivalent.	
1105 0465 Spanish Theatre of the 20th Century	
Principal trends of the Spanish theatre from Benavente to the contemporary dramatists.	3 s.h.
Prerequisite: P 1105 0151 and 0152	

P 1105 0466 Contemporary Spanish-American Theatre

The principal movements of the theatre in Spanish America in the 20th century.

3 s.i.

Prerequisite: P 1105 0162

P 1105 0470 Senior Seminar

Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.

3 s.i.

Prerequisites: Majors only, instructor's permission

P 1105 0471 Contemporary Trends in the Spanish-American Novel

The contemporary novel in Spanish America, with emphasis on the Nueva Novela.

3 s.i.

Prerequisites: Spanish 0252 or equivalent, P 1105 0162

P 1105 0472 Puerto Rican Literature and Thought

Insight into the literature and philosophy of the Caribbean Hispanic World. Contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas.

3 s.

Prerequisite: P 1105 0162

P 1105 0475 Seminar on Spanish Culture in US

A study of the Hispanic cultures and their adaptation culturally and linguistically to the U.S. considering especially Puerto Ricans, Chicanos and other minority groups.

3 s.

Prerequisite: P 1105 0472, instructor's permission

P 1105 0480 Independent Study

Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.

3 s.

Prerequisites: 24 hours of major Spanish credits; majors only

P 1105 0481 Field Work in Hispanic Community I

Required course in the academic minor in Spanish Community Affairs. Student will devote 100 hours work in the area in which he chooses to concentrate. Child care centers, mental health clinics, recreational activities, social agencies, etc., under the supervision of the MSC Passaic Center. In addition, the student must carry out an independent project by which he will demonstrate his ability to communicate with and engage the Hispanic community.

3 s.

Prerequisite: Not for major credit; instructor's permission

P 1105 0482 Field Work in Hispanic Community II

A continuation of 1105 481. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit.

3 s.

Prerequisite: Not for major credit; P 1105 0481, instructor's permission

P 1105 0483 Field Work in Hispanic Community III

Continuation of 1105 482. Student may continue in chosen job center, or may choose to enter a new related field. 100 hours work required for completion of credit.

3 s.

Prerequisite: Not for major credit; P 1105 0482, instructor's permission

**Portuguese
Course Descriptions**

P 1125 0101 Beginning Portuguese I

For students with no previous study of Portuguese. Training students to understand, speak, read and write the language.

3 s.i.

P 1125 0112 Beginning Portuguese II

For students with no previous study of Portuguese. Training students to understand, speak, read and write the language.

3 s.i.

Prerequisite: P 1125 0101

P 1125 0121 Intermediate Portuguese I

Strengthening basic language skills, as established in the beginning courses, through more advanced grammar and selected readings.

3 s.i.

Prerequisite: P 1125 0112

P 1125 0132 Intermediate Portuguese II

Strengthening basic language skills, as established in the beginning courses, through more advanced grammar and selected readings.

3 s.h.

Prerequisite: P 1125 0121

P 1125 0141 Portuguese Grammar and Composition I

Advanced course on Portuguese grammar to afford students an opportunity to practice in composition and conversation such points of structure and usage as sentence construction, agreement, prepositions, sequence of tenses, the subjunctive, and uses of ser and estar.

3 s.h.

Prerequisite: P 1125 0132

P 1125 0142 Portuguese Grammar and Composition II

This course continues the examination and review of grammatical structures and usage, and provides the students further opportunity to perfect their writing and speaking abilities in Portuguese.

3 s.h.

Prerequisite: P 1125 0141

P 1125 0160 Masterpieces in Portuguese Literature

An intensive study of representative works by the most important authors of each major period in Portuguese literature.

3 s.h.

Prerequisite: P 1125 0132

P 1125 0162 Masterpieces in Brazilian Literature

An intensive study of representative works by the most important authors of each major period in Brazilian literature.

3 s.h.

Prerequisite: P 1125 0132

Paralegal Studies Minor

Students are required to complete 24 credit hours in the minor. Upon completion, they will receive a Certificate of Paralegal Studies, or, in the case of students enrolling in the Spanish Dept. Internships, a Certificate of Paralegal Studies with Hispanic Specialization.

Requirements**Semester Hours****Political Science**

2207 0220	Introduction to Paralegalism	3
2207 0230	Fundamentals of Legal Research	3
2207 0321	Law in Society: Criminal Law	3
2207 0320	Law in Society: Civil Law	3
	or	
2207 0400	American Constl. Law: The Federal Sys.	

Administrative Sciences

0506 0261	Legal Environment of Business I	3
0506 0262	Legal Environment of Business II	3
	or	
0506 0263	Legal Environment of Business III	3

Spanish/Italian

1105 0360	Spanish Community Program Internship in Law and Field Work I
	or

Political Science

2207 0325	Internship in Law I	6
2207 0326	Internship in Law II	

TOTAL Internship Hours 6
MINOR REQUIRED TOTAL 24

Students enrolled in the Minor are required to complete the following courses: Introduction to Paralegalism; Fundamentals of Legal Research; Law in Society: Criminal Law; and Legal Environment of Business I. Students have the option to choose between Law in Society: Civil Law and Constitutional

Law: The Federal System; as well as between Legal Environment of Business II and III. All students are required to complete two semesters of internship, with those students who are bilingual being permitted the option to complete their internship in the Spanish Community Program's Internship in Law and Field Work I. Both Introduction to Paralegalism and Fundamentals of Legal Research are prerequisites of Internship in Law I and II.

Before beginning the Paralegal Studies Program, students must have completed at least their freshman year of college studies. The program is available to students who already hold a bachelor's degree as well as to undergraduate students.

Italian Major Requirements

	Semester Hours
P 1104 0141	Italian Grammar and Composition I
P 1104 0142	Italian Grammar and Composition II
P 1104 0260	Italian Cultural History I
P 1104 0161	Italian Cultural History II
P 1104 0240	Italian Literature: Origins to 18th Century
P 1104 0241	Italian Literature: 18th to 20th Centuries
	REQUIRED TOTAL 1

Electives

Select 18 semester hours:

P 1104 0209	Italian Conversation	
P 1104 0277	Italian Literature of the 18th Century	
P 1104 0341	Italian Literature of the Renaissance I	
P 1104 0342	Italian Literature of the Renaissance II	
P 1104 0351	Italian Literature of the 20th Century I	
P 1104 0352	Italian Literature of the 20th Century II	
P 1104 0361	Italian Literature of the 19th Century I	
P 1104 0362	Italian Literature of the 19th Century II	
P 1104 0371	Italian Literature of the 13th & 14th Centuries	
P 1104 0375	Study Abroad	Credit by Evaluation
P 1104 0410	Italian Grammar for Teachers	
P 1104 0461	Dante Seminar I	
P 1104 0462	Dante Seminar II	
P 1104 0470	Senior Seminar	
P 1104 0480	Independent Study	
		REQUIRED TOTAL

Italian Minor

P 1104 0141	Grammar and Composition I	
P 1104 0142	Grammar and Composition II	
P 1104 0160, 0161	Italian Cultural History I and II	
P 1104 0240	Italian Literature, Origins to 18th Century	
P 1104 0241	Italian Literature, 18th through 20th Centuries	
		REQUIRED TOTAL

Teacher Certification

Students who desire teacher certification must elect the following courses

P 1104 0309	Intensive Practice in the Spoken Language
P 1104 0410	Italian Grammar for Teachers
P 1104 0419	The Teaching of Italian in Secondary Schools

Second Teaching Field in Italian

P 1104 0141	Italian Grammar and Composition I
P 1104 0142	Italian Grammar and Composition II
P 1104 0160, 0161	Italian Cultural History I and II
P 1104 0209	Italian Conversation*
P 1104 0240	Italian Literature: Origins to 18th Century

P 1104 0241	Italian Literature: 18th through 20th Centuries	3
P 1104 0410	Italian Grammar for Teachers	3
SECOND FIELD REQUIRED TOTAL		24

*Upon recommendation by the Committee on Teacher Admissions, this course may be waived and a major elective substituted.

Additional requirements:

If the student has not studied a teaching methods course in a foreign language, he must elect, in addition, P 1104 0419, The Teaching of Italian in Secondary Schools (3 s.h.).

Italian Course Descriptions

P 1104 0101 Beginning Italian

For students with no previous knowledge of Italian imparting the basic foundations in the language. 3 s.h.

P 1104 0112 Beginning Italian II

For students with no previous knowledge of Italian imparting the basic foundations in the language. Prerequisite: P 1104 0101, CRS in similar field 3 s.h.

P 1104 0121 Intermediate Italian

A continuation of the beginning courses to strengthen the four language skills through grammar and selected readings. 3 s.h.

Prerequisite: P 1104 0112

P 1104 0132 Intermediate Italian II

A continuation of the beginning courses to strengthen the four language skills through grammar and selected readings. 3 s.h.

Prerequisite: P 1104 0121, CRS in similar field

P 1104 0141 Italian Grammar & Composition I

ives students better control of the structure of the language through written and oral practice. Required majors. 3 s.h.

Prerequisite: P 1104 0132

P 1104 0142 Italian Grammar & Compositions II

astery of the language through written and oral exercises review of advanced grammar. Required for majors. 3 s.h.

Prerequisite: Italian 0132 or equivalent.

P 1104 0241 Studies in Italian Literature 18th Through 20th Centuries

representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of literary works. Required for majors. 3 s.h.

Prerequisite: P 1104 0132

P 1104 0240 Studies in Italian Literature Origins to 18th Century

representative works from the Scuola Siciliana to the 18th century analyzed and discussed. Required for majors. 3 s.h.

Prerequisite: P 1104 0132

P 1104 0160 Italian Cultural History I

A outline of Italian history and culture from the M.A. to the Renaissance. Medieval Political, Social and Cultural realities. Church, Empire, National Monarchies and free cities. The Humanism and the Renaissance. Philosophical, Artistic, Literary and Musical expressions. 3 s.h.

Prerequisite: P 1104 0132

P 1104 0161 Italian Cultural History II

A outline of Italian History and Culture from the 16th century to the present. Galilei and the development of Modern Scientific thought. The Italian Opera. The enlightenment in Italy. Social, Philosophical and legal literature. The Risorgimento. The political unification and the emerging of a national culture. Issues in modern Italy. The Fascist adventure and the emerging of new political and social forces. 3 s.h.

Prerequisite: P 1104 0160

P 1104 0209 Italian Conversation

Practice in spoken Italian through assigned topics and discussions about daily life and world events. / opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of expression.

3 s

Prerequisite: P 1104 0132

P 1104 0341 Italian Literature of the Renaissance I

The development of Humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. 0341—Emphasis on Petrarch Canzoniere, Secretum, Tionfi, a Boccaccio Decamerone.

3 s

Prerequisite: P 1104 0240, CRS in similar field

P 1104 0342 Italian Literature of the Renaissance

The development of Humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. 0342—Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.

3 s

Prerequisite: P 1104 0240

P 1104 0351 Italian Literature of the 20th Century

Particular attention to the contemporary period. 0351—Pirandello: *Novelle per un anno*, *Così e i personaggi in cerca d'autore*. Saba: *Canzoniere*. Ungaretti: *L'allegrai*, *Sentimento del Tempo*. Montale: *Gli di Seppia*. Quasimodo: *Ed e subito sera*.

3

Prerequisite: P 1104 0241

P 1104 0352 Italian Literature of the 20th Century

Particular attention to the contemporary period. 0352—Paves: *La Luna e i falo*. Moravia: *Agostino*. Silone: *Pane e Vino*, Vittorini: *Conversazioni in Sicilia*, and others.

3

Prerequisite: P 1104 0241

P 1104 0361 Italian Literature of the 19th Century

Neo-classicism, romanticism, and Verismo. 0361—Foscolo: *Sonetti, Sepoicri, Ultime Lettere di Jacopo Ortis*. Manzoni: *Inni sacri*, *Promessi sposi*, Leonardini: *Canti, Operette morali*.

3

Prerequisite: P 1104 0241

P 1104 0362 Italian Literature of the 19th Century

Neo-classicism, romanticism, and Verismo. 0362—Carducci: *Rime Nuove*, *Odi Barbare*, *Rime*. Pascoli: *Odi e Inne Myricae*. Verga: *Novelle Rusticane*. D'Annunzio: *Laudi*, *Novelle della Pescara*.

3

Prerequisite: P 1104 0241

P 1104 0371 Italian Literature of the 13th and 14th Centuries

The most important representative of the Sicilian and Tuscan schools, with particular attention to the Dolce Stil Novo and the works of Dante.

3 h

Prerequisite: P 1104 0240

P 1104 0375 Study Abroad

Study at an Italian University. Opportunity to gain first hand knowledge of the historical, social, economic and cultural life of Italy.

Credit by evaluation

Prerequisite: Credit by evaluation, instructor's permission

P 1104 0277 Italian Literature of the 18th Century

The most important representatives of this century. Goldini: *Memoires e la riforma della Commedia*, *Bottega del caffè*, *La moglie saggia*, *Il Vero Amico*, *La Locandiera*, etc. Parini: *Giorno*, *Odi*. Alfieri: *Ricordi di Saul*, *Mirra*, *Il Divorzio*.

3 h

Prerequisite: P 1104 0240

P 1104 0410 Italian Grammar for Teachers

Structural feature of Italian areas of interference with English structure which present the greatest difficulties to the student of Italian.

3 h

Prerequisite: P 1104 0142

P 1104 0419 The Teaching of Italian in Secondary Schools

Aims, objectives, and methods of teaching Italian in secondary schools. Textbooks, supplementary

3

teaching material, the language laboratory, tests, etc. 3 s.h.
 Prerequisite: Senior standing

P 1104 0461 Dante Seminar I

Medieval thought as represented in Dante's works. A selection of readings from *Vita Nova*, *Convivio*, *Monarchia*, analysis and exegesis of *Inferno*. 3 s.m.
 Prerequisite: P 1104 0240, P 1104 0241

P 1104 0462 Dante Seminar II

Medieval thought as represented in Dante's works. A selection of readings from *Vita Nova*, *De Vulgari Eloquenteria*, *Convivum*, and *Divina Commedia* read and analyzed. 3 s.h.
 Prerequisite: P 1104 0240 and 0241

P 1104 0470 Senior Seminar

The techniques of literary research based on selected topics from Italian literature. 3 s.h.
 Prerequisite: Majors only, Senior standing.

P 1104 0480 Independent Study

Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives. 3 s.h.
 Prerequisite: 24 hours of major Italian credits

Humanities Elective Course Descriptions

4903 0161 Magic Realism in Spanish American Literature (In English)

A study of magic realism as manifested in representative works of contemporary Spanish American fiction. Works to be read in English translation. 3 s.h.

4903 0180 Luso-Brazilian Literature

A study of the major writers in the Portuguese-speaking world in the 19th and 20th centuries, including Machado Assis and Eca De Queiros. Taught in English. 3 s.h.

4903 0276 (Spanish Literature Translation) Golden Age

A major dramatists of the Peninsular Spanish Golden Age: Lope De Vaga, Tirso De Molina, Ruiz De Larcon and Calderon De La Barca. 3 s.h.
 Prerequisite: Majors only

4903 0277 The Italian Cinema

Development of the Italian cinema from neo-realism to today. In particular dealing with the following directors: Rossellini, Fellini, Desica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. 3 s.h.

4903 0278 Spanish Literature of the 20th Century

Designed for non-Spanish majors who wish to read major Spanish literary works in English translation. Authors included are: Unamuno, Ortega Y Gasset, Garcia Lorca, Machado and Juan R. Jimenez. 3 s.h.
 Prerequisite: Majors only

4903 0280 20th Century Italian Literature

Selected writers illustrating the main currents of 20th century Italian literature: Pirandello, Ungaretti, Montale, Pavese, Betti, Vittorini, Silone, Moravia and others. 3 s.h.

4903 0372 Contemporary Latin-American Theater

This course aims at acquainting the student with the major trends and dramatists in twentieth century Latin-American theater. 3 s.h.

4903 0373 Spanish American Poetry

A study of contemporary poetry in Spanish America from modernism to the present, considering the leading currents and figures in the major movements. 3 s.h.

4903 0376 Spanish American Short Story

An analysis in the modern short story in Spanish America and its importance as a genre in the literary life of Spanish American. 3 s.h.

P 4903 0377 The Italian American Novel

A presentation of representative works of Italian-American authors dealing with the problems of the Italian immigrant as he/she inserts him/herself into the American mainstream. Didonato's *Naked as an Author*, Puzo's *Godfather* and the *Fortunate Pilgrim*, and Fante's *Dago Red* are some of the works to be considered.

3 s.h.

P 4903 0378 Modern Spanish-American Novel

The development of the Spanish-American novel in the 20th century. Readings and discussion of representative works.

3 s.h.

P 4903 0379 Dante

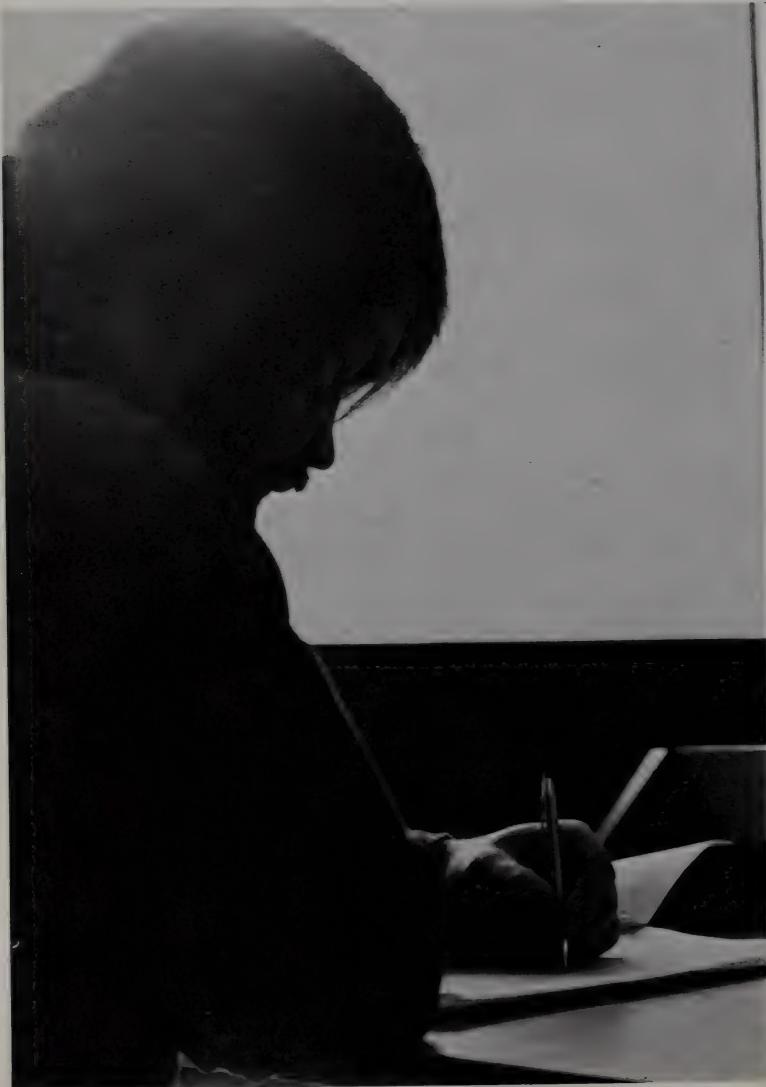
A critical study of Dante, considering especially the Divine Comedy and other selected works in their medieval context.

3 s.h.

P 4903 0380 Italian Humanism and Renaissance

The works of Petrarch, Boccaccio and Machiavelli, and a secondary consideration of works of other authors of the Renaissance.

3 s.h.



School of Mathematics and Science

**Richard A. Lynde, Ph.D., Acting Dean
Marie Frazee, Ed.D., Academic Advisor**

Reflecting the close affinity of disciplines within the natural and mathematical sciences, the School of Mathematics and Science includes the Departments of Biology, Chemistry, Mathematics and Computer Sciences, and Physics-Geoscience.

Programs offered by the School are designed to achieve two instructional goals: to provide students of the natural and mathematical sciences an opportunity to obtain a significant depth of knowledge within a discipline, and to interpret the process by which knowledge and understanding of the physical world are derived from experimental methods and the significance of science to the college community. The constantly evolving nature of the math-science disciplines stimulates continual curriculum evaluation and revision and the establishment of new programs, such as the computer science minor, when appropriate.

Separately, or in combination, the programs provide appropriate preparation for professional training (primarily in medicine and dentistry) and for graduate work and employment in a wide range of math-science related fields. In addition, the School offers teacher-preparation programs leading to certification in the biological or physical sciences or mathematics.

Lecture and laboratory facilities of the School are located in Finley Hall (biology), Mallory Hall (biology, geoscience), and the Mathematics and Science Building (chemistry, computer science, mathematics, and physics). Faculty members have developed vigorous undergraduate research programs supported in each department by a wide selection of major equipment and individual research carrels. The College is a member of the New Jersey Educational Computer Network, the extensive facilities of which are available to students through the Computer Center in the Mathematics and Science Building. In addition, the College is a charter member of the New Jersey Marine Sciences Consortium. A special asset of the School is its location in northern New Jersey, which has one of the largest concentrations of scientific research organizations in the country. Liaison with industry and scientific professional organizations in the area provides the School with unique resources and opportunities for study and research.

Department of Biology

Professors: Koditschek, Kuhnen, Shubeck (Chairman)

Associate Professors: Kane, McCormick, Pai (Chairman), Shillcock

Assistant Professors: Cribben, Dilorenzo, Kennett, Koepp, Stein, Surgan

Major course requirements with the proper selection of elective courses will enable the student to prepare for graduate work in the major field, or will serve as a preprofessional program for medicine, dentistry, medical technology and other biology-related fields. The student preferring certification to teach biology can obtain it by fulfilling the professional sequence.

Freshman courses offered for the biology majors assume that the student has been exposed to biology, chemistry and physics, and at least three years of college preparatory mathematics in high school.

The Biology department offers an honors program for outstanding students. In order to be granted "Honors in Biology," biology majors must have an overall grade point average of at least 3.5 and an earned grade point average of 3.7 in biology (no grade below B). They must also complete 0418 Biology Independent Study and 0495 Independent Study in Biological Literature under joint sponsorship of two biology faculty members.

Biology Major

Requirements

		Semester Hours
Q 0401 0140	The Biology of the Cell*	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4

Q 0401 0131	Vertebrate Zoology	
Q 0401 0412	Genetics	

*Those planning on entering the Teacher Certification program must take instead Q 0401 0120 Plant Form and Function 4 s.h.

Collateral Requirement

30 semester hours

R 1905 0120, 0121	General Chemistry I, II	4 ea
R 1905 0230, 0231	Organic Chemistry I, II	3 ea
R 1905 0232	Experimental Organic Chemistry I	2 ea
T 1902 0103, 0104	College Physics I, II	4 ea

6 semester hours selected from:

S 1701 0115	Introductory Mathematical Analysis	4 ea
S 1701 0122, 0221, 0222	Calculus I, II, III	3 ea
S 1701 0117, 0118	Mathematics for Biological Sciences I, II	3 ea

REQUIRED TOTAL

30

Electives

14-15 semester hours

Q 0401 0213	Introduction to Field Biology	
Q 0401 0300	Environmental Biology and Related Controversial Issues	
Q 0401 0320	Plant Form and Function	
Q 0401 0330	Introduction to Animal Behavior	
Q 0401 0350	Elementary Microbiology	
Q 0401 0370	Principles of Ecology	
Q 0401 0408	Ultrastructural Interpretation	
Q 0401 0409	Field Experience in Current Laboratory Research	2 ea
Q 0401 0410	Biological Science Demonstrations	
Q 0401 0411	Introduction to Electron Microscopy	
Q 0401 0413	Field Studies in Sciences: Biology	
Q 0401 0414	Problems in Field Studies in Biology	
Q 0401 0417	Evolution and Systematics	
Q 0401 0418	Biology Independent Study	Credit by Arrangement
Q 0401 0419	History and Philosophy of the Life Sciences	
Q 0401 0420	Economic Botany	
Q 0401 0424	Morphology of Flowering Plants	
Q 0401 0425	Elementary Plant Physiology	
Q 0401 0426	New Jersey Flora	
Q 0401 0430	Field Ornithology	
Q 0401 0431	Entomology	
Q 0401 0432	Medical Entomology	
Q 0401 0439	Biology of Animal Parasites	
Q 0401 0440	Mammalian Anatomy and Histology	
Q 0401 0441	Comparative Anatomy of the Vertebrates	
Q 0401 0442	Human Physiology	
Q 0401 0443	Comparative Vertebrate Embryology	
Q 0401 0444	Cell Physiology	
Q 0401 0445	Immunology	
Q 0401 0446	Endocrinology	
Q 0401 0451	Bacterial Physiology	
Q 0401 0460	Biological Oceanography	
Q 0401 0461	Limnology	
Q 0401 0462	Advanced Marine Biology	
Q 0401 0463	Marine Invertebrate Zoology	
Q 0401 0464	Marine Botany	
Q 0401 0465	Biology of Marine Plankton	
Q 0401 0467	Marine Ichthyology	

Q 0401 0491	Research Seminar in Biological Literature	2
Q 0499 0000	Techniques	
Q 0499 0401	Field Methods in Oceanography and Marine Biology	1
Q 0499 0402	Plankton Sampling and Analysis	1
Q 0499 0403	Primary Production in the Marine Environment: Techniques and Measurement	1
Q 0499 0404	Plant and Animal Histological Techniques	3
Q 0499 0405	Cell Culture	3
R 1905 0435	Biochemistry	4
T 1914 0433	Invertebrate Paleontology	4
	REQUIRED TOTAL	34

The electives available permit concentration in a number of areas. See your department faculty advisor for recommendations as to electives most applicable to your field of interest. All elective courses are not offered every year.

Biology Minor

Arts and Sciences Programs

Requirements

		Semester Hours
Q 0401 0140	The Biology of the Cell	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0131	Vertebrate Zoology	4
Q 0401 0412	Genetics	4
	REQUIRED TOTAL	20

Second Teaching Field

Students majoring in another field who desire a certification in biology in addition to one in their major field must take the following 24 semester hours program:

Q 0401 0140	Biology of the Cell	4
Q 0401 0121	The Plant Kingdom	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0131	Vertebrate Zoology	4
Q 0401 0320	Plant Form and Function	4
Q 0401 0412	Genetics	4
	Biology Elective	4
	REQUIRED TOTAL	28

Biology Course Descriptions

0401 0100 Biological Sciences

Organization and behavior of plants and animals, mechanisms of heredity, evolutionary change, relationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory) 4 s.h.

0401 0103 General Biology I

Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (2 hrs. lecture, 4 hrs. laboratory) 4 s.h.

0401 0104 General Biology II

Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. 4 s.h.

0401 0106 Social Behavior of Animals for the Layman

Survey of behavioral patterns employed in interactions between animals. Aggression, communication, reproductive behavior, development of social behavior. Not for biology majors. 3 s.h.

0401 0107 Biology for Survival

Basic concepts of biology that focus on social implications of pollution, population control, radiation,

drugs, pesticides, the genetic revolution, etc. For non-science majors. (3 hrs. lecture)	3 s.l.
Q 0401 0109 The Living World of Animals and Plants: Their Habits and Habitats To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats including the extreme habitats of desert, cave, deep sea and the artic.	3 s.l.
Q 0401 0121 The Plant Kingdom Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hr. lecture, 4 hrs. laboratory)	4 s.l.
Q 0401 0130 Invertebrate Zoology Form, function, ecology, evolutionary development of the invertebrates. (2 hrs. lecture, 4 hrs. laboratory)	4 s.
Q 0401 0131 Vertebrate Zoology Form, function, ecology and evolution of vertebrates. (2 hrs. lecture, 4 hrs. laboratory) Prerequisite: Q 0401 0130	4 s.
Q 0401 0140 Biology of the Cell Form, function and evolution of cells.	4 s.
Q 0401 0212 Genetics for the Layman Basic genetic principles and modern molecular genetics and their application to human heredity, medicine, the future of man and our natural world.	3 s.
Q 0401 0213 Introduction of Field Biology Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes States Forest.	2 s
Q 0401 0240 Mammalian Anatomy & Physiology I The anatomy and physiology of the human organism. Primarily for sophomore Physical Education majors.	3 s
Q 0401 0241 Mammalian Anatomy & Physiology II The anatomy and physiology of the human organism. Primarily for sophomore Physical Education majors.	3 s
Q 0401 0242 Human Biology Body structure and functions in relation to the maintenance of good health. Not for biology majors. hrs. lecture, 2 hrs. laboratory)	3 s
Q 0401 0243 Human Anatomy & Physiology A study of the dynamics of the human body in relation to its structure & function is based on nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA certification. Prerequisite: R 1905 0270	4 s
Q 0401 0250 Applied Microbiology Microbiological concepts and techniques applicable to food and dairy sanitation, water, air pollution, sewage and other environmental problems. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory) Prerequisite: 1 year of chemistry or CRS in similar field.	3 s
Q 0401 0300 Environmental Biology & Related Controversial Issues Analysis of ecological problems of today: population trends and control, food production, environmental deterioration, waste disposal etc. Prerequisite: 12 semester hours of Biology.	3 s
Q 0401 0320 Plant Form & Function This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered. Prerequisite: Q 0401 0121	4 s

Q 0401 0330 Introduction to Animal Behavior

Patterns, underlying mechanisms, ontogeny and phylogeny of animal behavior. (Not offered every year) (2 hrs. lecture, 4 hrs. laboratory). 4 s.h.

Prerequisites: Q 0401 0130, Q 0401 0131, plus 4 additional semester hours of biology.

Q 0401 0350 Elementary Microbiology

A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. 4 s.h.

Prerequisites: Q 0401 0140, R 1905 0120, R 1905 0121.

Q 0401 0370 Principles of Ecology

To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. 2 hours lecture and 2 hours laboratory.

Prerequisites: 1 semester Botany & 2 semesters Zoology. Majors only

3 s.h.

Q 0401 0408 Ultrastructural Interpretation

Analysis of electron micrographs representing a wide range of biological specimens. Includes artifact recognition, identification of cellular organelles and fractions, and characterization of selected cellular pathologies. 3 s.h.

Prerequisites: 12 credits in Biology plus Q 0499 0404, Q 0401 0411.

Q 0401 0410 Biological Science Demonstrations

Individual and group experiments in demonstrations applicable to the high school laboratory. (Not offered every year) 4 s.h.

Prerequisite: 1 year of Biology.

Q 0401 0411 Introduction to Electron Microscopy

Basic theory and practice of electron microscopy. Specimen preparation, ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory)

Prerequisites: 18 hours Biology including Q 499 0404, instructor's permission.

4 s.h.

Q 0401 0412 Genetics

Mendelian Laws to Molecular Genetics, structure and function of the gene, its transmission, the regulation of gene action and mutation. (Not offered every year) 4 s.h.

Prerequisites: 1 year of Chemistry and Q 0401 0120, Q 0401 0140, CRS in similar field

Q 0401 0413 Field Studies in Science: Biological

Identification and natural history of fauna and flora. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: 1 year of Biology

Q 0401 0414 Problems in Field Studies in Biology

Student will work out a problem in field science. (Not offered every year) (2 hrs. lecture) 2 s.h.

Prerequisite: Q 0401 0410, Q 0401 0413 or its equivalent, plus at least 12 semester hours of Biology.

Q 0401 0418 Biology Independent Study

Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required. (Offered on demand) 1-4 s.h.

Prerequisite: Instructor's permission

Q 0401 0419 History and Philosophy of the Life Sciences

Historical survey of the major trends in the development of scientific thought. (Not offered every year) 2 s.h.

Q 0401 0420 Economic Botany

Importance of plants to the world in general and to man in particular. (Not offered every year)

Prerequisites: Q 0401 0320 or Q 0401 0121 3 s.h.

Q 0401 0424 Morphology of Flowering Plants

Structure, evolutionary development and taxonomy of flowering plants with greatest emphasis on variation in floral morphology. (Not offered every year) 4 s.h.

Prerequisites: Q 0401 0320 or Q 0401 0121

Q 0401 0425 Elementary Plant Physiology

Major physiological processes of the flowering plant. Growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year) 4 s.h.

Prerequisites: Q 0401 0320, Q 0401 0121, R 1905 0231

Q 0401 0426 New Jersey Flora

Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year) 4 s.h.

Prerequisite: Q 0401 0121, CRS in similar field

Q 0401 0430 Field Ornithology

Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year) (1 hr. lecture, 3 hrs. laboratory) 3 s.h.

Prerequisite: 1 year of Biology or its equivalent

Q 0401 0431 Entomology

Identification, physiology and ecology of common insect families. (Not offered every year) 3 s.h.

Prerequisite: Q 0401 0130

Q 0401 0432 Medical Entomology

The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year) 3 s.h.

Prerequisites: Q 0401 0130 or Q 0401 0431

Q 0401 0439 Biology of Animal Parasites

The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host. 4 s.h.

Prerequisite: 1 year of Zoology and/or Botany. Genetics recommended.

Q 0401 0440 Mammalian Anatomy & Histology

Mammalian body systems and their component tissues through dissection of a representative mammal and use of prepared slides. (3 hours lecture, 3 hours lab). 4 s.h.

Prerequisite: Q 0401 0131

Q 0401 0441 Comparative Anatomy of the Vertebrates

Ontogeny and morphology of representative taxa of the protostomes and chordates. (Not offered every year) 4 s.h.

Prerequisites: Q 0401 0131 or Q 0401 0440

Q 0401 0442 Human Physiology

Functions of animal organs and systems with emphasis on maintenance of homeostasis. 4 s.h.

Prerequisite: Q 0401 0440, CRS in similar field

Q 0401 0443 Comparative Vertebrate Embryology

Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concept of development and cell differentiation. (Not offered every year) 4 s.h.

Prerequisites: Q 0401 0130, Q 0401 0131

Q 0401 0444 Cell Physiology

Advanced course in phenomena in cell function. Individual experimental problems using specialized instrumentation are assigned in the laboratory. 4 s.h.

Prerequisites: Q 0401 0442, R 1905 0230

Q 0401 0445 Immunology

Cellular and humoral immunological responses, immunoglobulins, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year) 3 s.h.

Prerequisite: 20 s.h. of Biology

Q 0401 0446 Endocrinology

Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.

Prerequisite: 1 year of Biology

3 s.h.

Q 0401 0451 Bacterial Physiology

Type organisms are examined to demonstrate structure, function, autotrophy, heterotrophy, phototrophy, symbiosis, antibiosis and other ecological phenomena. Laboratory experiments develop advanced techniques. (Not offered every year) (3 hrs. lecture, 3 hrs. laboratory). 4 s.h.

Prerequisites: Q 0401 0350, Q 0401 0444, R 1905 0230, Organic Chemistry I, II and/or 1905 0435 Biochemistry

Q 0401 0460 Biological Oceanography

Biological processes within oceans and estuaries are considered in relation to the physical environment.

Field and laboratory work. (Not offered every year) 3 s.h.

Prerequisites: Q 0401 0130, Q 0401 0121 and 1 year Chemistry

Q 0401 0461 Limnology

Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year) 3 s.h.

Prerequisites: 1 year of Chemistry and 1 year of Biology or instructor's permission

Q 0401 0467 Biology of the Fishes

Systematics, adaptations, reproduction, evolution, ecology and zoo-geography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year) 4 s.h.

Prerequisites: Q 0401 0131, Q 0401 0422

Q 0401 0468 Marine Energy Systems

Principles of production and energy transfer in the marine environment. Spatial and temporal distribution of productivity. Productivity measurement and assessment of the roles of plants, herbivores and carnivores in marine energetics. Offered at New Jersey Marine Sciences Consortium. 2 s.h.

Prerequisite: One year of Physics, one year of Organic Chemistry, one year of Biology, and one semester of Calculus

Q 0401 0490 Selected Topics in Biology

Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of Biology in the study of a single topic. 1-4 s.h.

Q 0401 0491 Research Seminar-Biological Literature

Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year) 2 s.h.

Prerequisite: Instructor's permission

Q 0499 0404 Plant and Animal Histological Techniques

Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory) 3 s.h.

Prerequisite: 12 semester hours of Biology

Q 0499 0405 Cell Culture

Theory of and practice in working with living cells; tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems. 3 s.h.

Prerequisite: all required Biology courses (20 hrs.) plus permission of instructor

Q 1999 0203 Man's Impact on Coastal Zone

A study of man's economic, political, legal and social impact on the coastal zone. 4 s.h.

Q 1999 0220 Intro to Marine Biology

This is a field and laboratory oriented-course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collection and identifying local marine flora and fauna. 4 s.h.

Prerequisite: CRS in similar field

Q 1999 0431 Marine Invertebrate Zoology

A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the pelagic and benthonic

forms associated with estuaries and the Continental Shelf. Also offered at the site of the New Jersey Marine Sciences Consortium.

4 s.h.

Prerequisites: Q 0401 0130, Q 0401 0131 or instructor's permission

Q 1999 0433 Seashore Ornithology

Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at New Jersey Marine Sciences Consortium.

2 s.h.

Prerequisites: Q 0401 0430 or CRS in similar field, instructor's permission

Q 1999 0438 Seashore Entomology

Ecological studies of the insect fauna found in the unique habitats of the (1) intertidal zone, (2) coastal sand dunes and (3) salt marsh found along the NJ shoreline.

2 s.h.

Prerequisites: Q 0401 0130, Q 0401 0431 or CRS in similar field

Q 1999 0460 Advanced Marine Biology

Interrelationships of marine animals and plants. Ecological response to physical and chemical parameters. Principles such as zonation, succession, ecosystem structure, and physiological response will be examined through lectures, field projects and laboratory study.

4 s.h.

Q 1999 0490 Field Methods in the Marine Sciences

The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the NJ Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory)

4 s.h.

Prerequisite: Senior standing

Q 1999 0491 Plankton Sampling and Analysis

Sampling, identification and counting of phyto- and zooplankton. N.J. Marine Sciences Consortium.

Prerequisites: Biology major or permission of the instructor. A specialized course for a specialized purpose.

1 s.

Q 1999 0494 Primary Production in the Marine Environment

Theory and techniques of primary production measurement. N.J. Marine Sciences Consortium.

Prerequisite: 16 credits in Biology or Geoscience. Advanced course.

1 s.

Department of Chemistry

Professors: Becker, Gawley

Associate Professors: Flynn, Gallopo, Garik, Isidor (Chairman), Lynde, Zabac

Assistant Professors: Awadallah, Fink, Kasner, Lyndrup, Paisley

The department offers a Bachelor of Science degree in Chemistry which will enable a student prepare for:

1. graduate study in chemistry or biochemistry;
2. professional programs in science-related fields;
3. professional employment;
4. teacher certification.

The chemistry program meets the criteria established by the American Chemical Society for undergraduate education in chemistry and is included in the ACS list of approved programs. Students who successfully complete the certification program will have fulfilled the minimum requirements for professional education as adopted by the ACS and will be certified to the Society upon graduation.

Students interested in teacher certification should complete the professional sequence of the Teacher Education program in addition to completing the chemistry major requirements.

The curriculum designed for chemistry majors assumes that students have been exposed to chemistry, biology and physics, as well as four years of high school college preparatory mathematics.

Honors program in chemistry is a highly challenging program of special discussions, seminars, and creative learning open to chemistry majors with outstanding academic records (minimum G.P.A. 3.70). The program culminates in a written honors thesis orally presented to members of the department by the student. Students who qualify may petition the Chemistry Honors Committee (the department chairman) to enter the program during the sophomore year (by last week in April), or the junior year (by last week in October).

Chemistry Major

Requirements

	Semester Hours
R 1905 0120, 0121 General Chemistry I, II	4 ea.
R 1905 0230, 0231 Organic Chemistry I, II	3 ea.
R 1905 0232, 0233 Experimental Organic Chemistry I, II	2 ea.
R 1905 0310 Analytical Chemistry	5
R 1905 0311 Instrumental Analysis	5
R 1905 0340, 0341 Physical Chemistry I, II	3 ea.
R 1905 0342, 0343 Experimental Physical Chemistry I, II	2 ea.

Collateral Requirements

A. Three Mathematics Courses from	12
S 1701 0122, 0221, 0222 Calculus I, II, III	3
S 1701 0240 Differential Equations	3
B. T 1902 0101 General Physics I, II	4 ea.

Electives

Select 5 semester hours	
R 1905 0421 Descriptive Inorganic Chemistry	3
R 1905 0422 Experimental Inorganic Chemistry	3
R 1905 0423 Theoretical Inorganic Chemistry	3
R 1905 0430 Advanced Organic Chemistry	3
R 1905 0440 Physical Chemistry III	3
R 1905 0445 Radiochemistry	3
R 1905 0470 Biochemistry	3
R 1905 0472 Experimental Biochemistry	2
R 1905 0490 Selected Topics in Chemistry	3
R 1905 0491 Honors Seminar	2
R 1905 0492 Honors Thesis	2
R 1905 0495 The Chemical Literature	1 or 2
R 1905 0498 Senior Laboratory	3
R 1905 0499 Undergraduate Research	1, 2 or 3
REQUIRED TOTAL	63

American Chemical Society Certification

In addition to taking the course requirements in the chemistry major program as detailed in the preceding sections, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

Requirements

	Semester Hours
A. Select Two	
1. 1905 0423 Theoretical Inorganic Chemistry	3
& 1905 0422 Experimental Inorganic Chemistry	3
2. 1905 0470 Biochemistry	3
& 1905 0472 Experimental Biochemistry	2
3. 1905 0440 Physical Chemistry, III	3
or 1905 0490 Selected Topics in Chemistry*	3
REQUIRED TOTAL	8-11

Select at least one course

(Courses used to fulfill requirement A, may not be used to fulfill B).

1905 0410 Advanced Quantitative Analysis	4
1905 0423 Theoretical Inorganic Chemistry	3
1905 0430 Advanced Organic Chemistry	3
1905 0440 Physical Chemistry, III	3
1905 0470 Biochemistry	3
1905 0490 Selected Topics in Chemistry	3
REQUIRED TOTAL	3

C. Select One

1905 0498	Senior Laboratory	3
or 1905 0499	Undergraduate Research	3

*Requires prior approval of Chemistry Chairman.

The learning of certain other skills might be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

1. Foreign Language: a reading knowledge of German, Russian or French;
2. Mathematics: Linear algebra;
3. Computer Science: programming ability in BASIC and FORTRAN.

Chemistry Minor**Requirements**

		Semester Hours
R 1905 0120, 0121	General Chemistry I, II	8
R 1905 0230, 0231	Organic Chemistry I, II	6
R 1905 0232, 0233	Experimental Organic Chemistry I, II	4
Select one set of courses		
A. R 1905 0310	Analytical Chemistry	5
B. R 1905 0340, 0342	Physical Chemistry I,	5
	Experimental Physical Chemistry I	
C. R 1905 0423, 0422	Principles of Theoretical Inorganic Chemistry,	6
	Experimental Inorganic Chemistry or	
D. R 1905 0470, 0472	Biochemistry, Experimental Biochemistry	5
		REQUIRED TOTAL
		23-24

Second Teaching Field in Physical Science

There is no New Jersey certification in the field of chemistry alone. Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following program:

T 1902 0101, 0102	General Physics I, II	4 ea
	Physics Elective	
R 1905 0120, 0121	General Chemistry I, II	4 ea
R 1905 0230, 0232	Organic Chemistry I and Experimental Chemistry I	2
		REQUIRED TOTAL

Chemistry Course Description

R 1905 0100 Introductory Chemistry

A non-laboratory survey course in modern chemistry for non-science majors.

3 s.h.

R 1905 0107 College Chemistry I

Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry. A sequential six credit course.

2 s.h.

R 1905 0108 College Chemistry II

Introductory chemistry course for non-science majors. Fundamentals of inorganic, organic and biochemistry. A sequential six credit course.

2 s.h.

Prerequisite: R 1905 0107

R 1905 0109 College Chemistry Laboratory I

Laboratory work to reenforce basic concepts of general chemistry. Two hours laboratory.

1 s.h.

Prerequisite: 1905 109 concurrent with 1905 107

R 1905 0110 College Chemistry Laboratory II

Laboratory work to reenforce basic concepts of organic chemistry and biochemistry. Two hours laboratory.

1 s.h.

Prerequisite: 1905 0110 concurrent with 1905 108

R 1905 0120 General Chemistry I

Introductory lecture and laboratory course for science majors. Prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electrochemistry, and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems. 4 s.h.

Prerequisite: CRS in similar field or R 1905 0107

R 1905 0121 General Chemistry II

Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, thermochemistry, kinetics, chemical equilibrium, electrochemistry and selected topics. Laboratory stresses techniques and data treatment and their use in examining chemical systems. 4 s.h.

Prerequisite: R 1905 0120

R 1905 0130 Survey of Organic Chemistry

Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. Laboratory work to reinforce concepts studied in lecture and increase experimental capabilities.

Prerequisite: R 1905 0107 or CRS in similar field

4 s.h.

R 1905 0195 Problem Solving-General Chemistry

Course designed to help students in applications of elementary arithmetic with emphasis on individual needs. 1 s.h.

R 1905 0230 Organic Chemistry I

Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties. 3 s.h.

Prerequisite: R 1905 0121

R 1905 0231 Organic Chemistry II

Modern concepts of the chemistry of aliphatic and aromatic carbon compounds, their preparation, isolation, reactions and properties. 3 s.h.

Prerequisites: R 1905 0230, R 1905 0232

R 1905 0232 Experimental Organic Chemistry I

A laboratory course to be taken concurrently with R 1905 0230 and 0231. Basic laboratory techniques and experiments in organic chemistry. 2 s.h.

Prerequisites: R 1905 0121, R 1905 0230, concurrently

R 1905 0233 Experimental Organic Chemistry II

A laboratory course to be taken concurrently with R 1905 0230 and 0231. Basic laboratory techniques and experiments in organic chemistry. 2 s.h.

Prerequisite: R 1905 0232 R 1905 0231 concurrently

R 1905 0235 Introduction: Applied Organic Chemistry

A laboratory course designed for students who are not majoring in science. It provides the serious student with the background in organic chemistry needed for satisfactory performance in biochemistry. 3 s.h.

Prerequisite: work in field

3 s.h.

1905 0270 Survey of Biochemistry

Structure and function of the biomolecules and the metabolic interrelationships in the cell. 5 s.h.

Prerequisite: R 1905 0130

5 s.h.

1905 0310 Quantitative Analysis I

Theory and practice of analysis acidimetry, gravimetry and redox methods.

4 s.h.

1905 0311 Quantitative Analysis II

Instrumental methods including potentiometry, conductometry, polarography, colorimetry, electrodeposition and compleximetry. 4 s.h.

Prerequisites: R 1905 0340, R 1905 0342

4 s.h.

1905 0340 Physical Chemistry I

Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties. 3 s.h.

Prerequisites: R 1905 0231, T 1902 0102, S 1701 0222

R 1905 0341 Physical Chemistry II

Kinetics, photochemistry, molecular physical chemistry.

Prerequisite: R 1905 0340

3 s.f.

R 1905 0342 Experimental Physical Chemistry I

A laboratory course to be taken concurrently with 1905 0340 and 0341. Application and experience with modern techniques of physical chemistry.

2 s.l.

Prerequisites: R 1905 0231, T 1902 0102, S 1701 0222

R 1905 0343 Experimental Physical Chemistry II

A laboratory course to be taken concurrently with R 1905 0340 and 0341. Application and experience with modern techniques of physical chemistry.

2 s.l.

Prerequisites: R 1905 0340, R 1905 0342, 1905 0341 concurrently

R 1905 0392 Scientific Glass Blowing

Course provides student with an opportunity to develop the ability to readily perform the basic manipulations of laboratory (not studio) glass blowing. Emphasis placed on practicing techniques which will enable the student to construct and repair scientific equipment of simple design. Limited to 10 students. Seniors will be given preference.

1 s.l.

R 1905 0410 Advanced Quantitative Analysis

Extends methods of analysis in 1905 0311. Absorption and emission spectroscopy, photometry, NMR, ESR, GC, thermoanalysis, polarography, amperometry and principles of automatic analysis.

4 s.

Prerequisites: R 1905 0311, R 1905 0341

R 1905 0411 Water Analysis & Purification

Modern chemical and biological techniques utilized in analysis and purification of water.

3 s.

Prerequisite: R 1905 0310 or instructor's permission

R 1905 0416 Modern Chemistry II

Course offers a survey of fundamental principles of chemistry and study of recent developments. Emphasis on structures of chemical species, particularly the relationships of these structures to the chemical and physical properties of substance.

3 s

Prerequisite: open to NSF participants only

R 1905 0422 Experimental Inorganic Chemistry

Practical experience utilizing a broad selection of modern techniques for the synthesis and characterization of inorganic compounds.

3 s

Prerequisite: R 1905 0340

R 1905 0423 Principles of Theoretical Inorganic Chemistry

Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.

3 s

Prerequisites: R 1905 0340, S 1701 0216

R 1905 0430 Advanced Organic Chemistry

Consideration of structural and electronic theories which form the basis of organic chemistry.

3 s

Prerequisite: R 1905 0231

R 1905 0440 Physical Chemistry III

Quantum mechanics, bonding theory, atomic structure, statistical thermodynamical calculations.

3 s

Prerequisite: S 1701 0420

R 1905 0445 Radiochemistry

Introduction to radioactive decay, nuclear structure, interactions of radiations with matter, nuclear reactions and energetics. Emphasis on applications of radioactive materials to chemical studies and chemical analysis of nuclear systems.

3 s

Prerequisite: R 1905 0340

R 1905 0447 Biophysical Chemistry

Therodynamics, equilibria, transport processes, kinetics, and electrochemistry as applied to cellular processes. 3 s.h.

Prerequisites: R 1905 0470 or Q 0401 0444, S 1701 0117 Instructor's permission

R 1905 0470 Biochemistry

Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis. 3 s.h.

Prerequisite: R 1905 0231

R 1905 0472 Experimental Biochemistry

Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques.

Opportunity is provided for individual projects.

2 s.h.

Prerequisites: R 1905 0231 or R 1950 0470

R 1905 0490 Selected Topics in Chemistry

In-depth study of a modern aspects of chemistry.

2-3 s.h.

Prerequisite: R 1905 0231 or Instructor's permission

R 1905 0491 Honors Seminar in Chemistry

Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry. 2 s.h.

Prerequisite: Admission to the honors program in chemistry or permission of the chemistry honors committee.

R 1905 0492 Honors Thesis in Chemistry

Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry. 2 s.h.

Prerequisite: R 1905 0491

R 1905 0495 The Chemical Literature

The chemical literature and techniques of extracting information from it.

1-2 s.h.

Prerequisite: CRS in similar field Instructor's permission

R 1905 0498 Senior Laboratory

Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds. 3 s.h.

Prerequisites: R 1905 0311, R 1905 0341, R 1905 0343

R 1905 0499 Undergraduate Research

Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor. 1-3 s.h.

Prerequisite: 27 hours in chemistry and permission of instructor

Department of Mathematics and Computer Science

Professors: Maletsky, Sobel, Stoddard

Associate Professors: Garfunkel (Chairman), Bredlau, Chai,

Demetropoulos, Kalmanson, Koellner, Lacatena, Parzynski, Roberts,
Stevens, Stewart, Westphal, Wolff

Assistant Professors: Anderson, Boyno, Carroll, Devlin, Gottschall, Gugel,
Kenschaft, Leef, Nettler, Othmer, Russell, Williamson, Zipse

Instructor: Leavy

The department offers a major and a minor program in mathematics and a major and a minor program in computer science. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There is an honors program in mathematics for qualified students.

The curriculum guides for programs in mathematics and computer science may be obtained in the school counseling office. Students who wish to pursue a dual major program—mathematics and

computer science—should check with the chairman of the mathematics and computer science department for advice in arranging a dual major program in these areas.

Students majoring in mathematics who desire teacher certification must complete the professional sequence and the following courses: S 1701 0161, 0350, 0431, and 0470. Students majoring in another field who desire a teaching certificate in mathematics in addition to one in their major field must take an approved 24-hour program in mathematics that includes a calculus sequence, S 1701 0335 and 0350.

Mathematics Major

The requirements include: foundation courses in mathematics; required collateral courses mathematics electives; and, the normal general education requirements.

The specific requirements for the major are as follows:

Requirements		Semester Hours
S 1701 0122	Calculus I	
S 1701 0221	Calculus II	
S 1701 0222	Calculus III	
S 1701 0335	Elements of Linear Algebra	
S 1701 0340	Probability	

Students who have taken high school courses in the above areas may receive advanced placement with credit based on either the Educational Testing Service Advanced Placement Examination or on standardized departmental examination.

Students who do not qualify for placement in Calculus I should begin their work in mathematics with S 1701 0115, Introductory Mathematical Analysis. Credit for this course would come from the student's free electives.

Collateral Requirements 1

S 1701 0183	Foundations of Computer Science I
S 1902 0101, 0102	General Physics, I, II

NOTE: The mathematics major is required to take eight semester hours in supporting courses in physics. Six semester hours of this work have been credited to Section IV—General Education, part A—Distributive Requirement—Theoretical and Applied Sciences.

Electives Semester Hours

Select 18 semester hours	
S 1701 0350	College Geometry (Required for Math. Teacher Ed.)
S 1701 0420	Differential Equations
S 1701 0423	Introduction to Complex Variables
S 1701 0425	Advanced Calculus I
S 1701 0426	Advanced Calculus II
S 1701 0428	Introduction to Topology
S 1701 0431	Foundations of Modern Algebra (Required Teacher Ed.)
S 1701 0433	Theory of Numbers
S 1701 0436	Elements of Logic
S 1701 0440	Statistical Methods for Research
S 1701 0443	Statistics: Theory and Applications
S 1701 0450	Foundations of Geometry
S 1701 0460	Introduction to Applied Mathematics
S 1701 0463	Introduction to Numerical Analysis
S 1701 0464	Applied Methods: Operations Research
S 1701 0465	Linear Programming and Game Theory
S 1701 0471	Selected Topics in Modern Mathematics
S 1701 0475	History of Mathematics
S 1701 0490	Honors Seminar
S 1701 0495	Seminar in Mathematical Science I*
S 1701 0496	Seminar in Mathematical Science II*

REQUIRED TOTAL

*These courses are offered primarily as independent study in advanced areas of mathematics.

Students should choose courses from the elective list that are consistent with their professional goals. Students who are interested in the following areas should select a minimum of three courses from the appropriate list.

1. Graduate School Preparation: S 1701 0425, 0426, 0428, 0431.
2. Statistics: S 1701 0425, 0440, 0443.
3. Teacher Education: S 1701 0433, 0436, 0471, 0475.

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 18-hour program in mathematics that includes a calculus sequence and S 1701 0335.

Computer Science Major

The requirements include: foundation courses in computer science; collateral requirements as indicated below; electives from the computer science and applied mathematics areas; and, the normal general education requirements. Students will be counselled to take as many administrative science, statistics, and natural science electives as possible. This will ensure maximum flexibility in employment opportunities and future growth potential.

Requirements

		Semester Hours
S 1701 0183	Foundations of Computer Science I	3
S 1701 0184	Foundations of Computer Science II	3
S 1701 0285	Discrete Structures	3

Collateral Requirements

S 1701 0122, 0221, 0222	Calculus I, II, III	4 ea.
One of the following sequences		8-9
1. T 1902 0101/2	General Physics I, II	4 ea.
2. R 1905 0120/1	General Chemistry I, II	4 ea.
3. 3 2204 0101/2	Principles of Economics: Macro, Micro	3 ea.
U 0506 0231	The Management Process	3 ea.

Electives

Select 27 semester hours

S 1701 0261	Introduction to Computer Applications II	3
S 1701 0280	Assembly Language and Machine Organization I	3
S 1701 0281	Assembly Language and Machine Organization II	3
S 1701 0335	Elements of Linear Algebra	3
S 1701 0340	Probability	3
S 1701 0381	Computer Applications II: File Processing	3
S 1701 0383	Data Structures	3
S 1701 0385	Microcomputers	3
S 1701 0386	Digital Circuits and Interfaces	3
S 1701 0463	Introduction to Numerical Analysis	3
S 1701 0464	Methods of Operations Research	3
S 1701 0480	Systems Analysis and File Management	3
S 1701 0481	Operating Systems	3
S 1701 0484	Fundamentals of Programming Language	3
S 1701 0495	Seminar in Mathematical Sciences I*	1-3
S 1701 0496	Seminar in Mathematical Sciences II*	1-3

These courses are offered primarily as independent study in advanced areas of computer science.

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing 18 semester hours from the following list of courses. At least nine s.h. must be taken at Montclair State College. At least 6 s.h. must be at the 300 level or higher.

Requirements	Semester Hours
S 1701 0183	Foundations of Computer Science I
S 1701 0184	Foundations of Computer Science II
S 1701 0261	Introduction to Computer Applications II
S 1701 0280	Assembly Language and Machine Organization I
S 1701 0281	Assembly Language and Machine Organization II
S 1701 0381	Computer Applications II: File Processing
S 1701 0382	Computer Applications III: Systems Analysis
S 1701 0383	Data Structures
S 1701 0385	Microcomputers
S 1701 0386	Digital Circuits and Interfaces
S 1701 0481	Operating Systems
S 1701 0484	Fundamentals of Programming Languages

Mathematics Course Descriptions

S 1701 0101 Introduction to Modern Math I

For students with a major interest in fields other than mathematics and science. Emphasis is on basic concepts rather than on formal manipulative skills. Topics include sets, logic, finite mathematics, systems of numeration, and properties of sets of numbers. Not for math-science majors. 3 s.h.

S 1701 0102 Introduction to Modern Math II

Application of basic concepts to topics in algebra, geometry, statistics, probability, and elementary calculus. Not for math-science majors. 3 s.h.

S 1701 0103 The Development of Mathematics

The growth and development of mathematics from ancient to modern times. Contributions of the great mathematicians. Not for math-science majors. 3 s.h.

S 1701 0107 Computers and Society

Information processing in political and social spheres, applications to industry and industrial automation, research in social sciences and humanities programming for techniques, not proficiency. Not for math-science majors. 3 s.h.

S 1701 0108 Computers and Programming

Develops programming competence in the basic language and the use of stored library programs. Problems will be primarily of a non-mathematical nature. Not for math-science majors. 3 s.h.

S 1701 0109 Statistics

Introduction to the use and misuse of statistics. Topics include analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making. Not for math-science majors. 3 s.h.

S 1701 0110 Introduction to Algebra and Analysis

Basic material needed for the study of Math 113-114. Topics include sets, relations, function, development of number systems and algebraic operations. If a student has received high school credit for intermediate algebra, he may not receive degree credit for Math 110. Not for math-science majors. 3 s.h.

S 1701 0113 Mathematics for Business I

Matrices, linear programming, probability, statistics. 3 s.h.

Prerequisite: S 1701 0110, CRS in similar field

S 1701 0114 Mathematics for Business II

The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics. 3 s.h.

Prerequisite: S 1701 0113, CRS in similar field

S 1701 0115 Introduction-Mathematical Analysis

Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, logarithmic and exponential functions. 3 s.h.

Prerequisite: 3 years of high school math or equiv.

S 1701 0116 Calculus A

Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors. 4 s.h.

Prerequisite: S 1701 0115, CRS in similar field

S 1701 0117 Math for the Life Sciences I

Descriptive statistics, counting techniques, probability distributions, biological models, introduction to hypothesis testing. Applications include genetics, ecology, biochemistry, experimental design. Not for math-computer science majors. 3 s.h.

S 1701 0118 Mathematics for the Life Sciences II

Mathematical models, population biology, diversity in populations, population genetics, contingency tables, regression analysis, mathematical ecology, topics in demography, tests of biological models. Not for math science majors. 3 s.h.

Prerequisite: S 1701 0117

S 1701 0122 Calculus I

Limits continuity derivatives and differentiation, antiderivatives, maxima, minima, and extreme considerations, differentials and related rates. 4 s.h.

Prerequisite: S 1701 0115, CRS in similar field

S 1701 0161 Introduction to Computing

Introduction to electronic computers and computer programming in basic language. 1 s.h.

S 1701 0183 Foundations of Computer Science I

Basic theory of digital computers: languages fortran. Flowcharting, strings, arrays, loops, and files. 3 s.h.

S 1701 0184 Foundations of Computer Science II

Comparative analysis of algorithms, lists, processing strings, processing and simulative languages, and introduction to formal languages. PL/1, concepts of structured program. 3 s.h.

Prerequisite: S 1701 0183, CRS in similar field

1701 0210 Statistical Methods

Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis. 4 s.h.

Prerequisite: S 1701 0114, CRS in similar field

1701 0221 Calculus II

Riemann integral, applications, transcendental functions, techniques of integration, polar coordinates, improper integrals, L'hospital's rule. 4 s.h.

Prerequisite: S 1701 0122, CRS in similar field

1701 0222 Calculus III

Partial differentiation, multiple integration, infinite series, differential equations, vector calculus.

Prerequisite: S 1701 0221, CRS in similar field

4 s.h.

1701 0260 Introduction to Computer Applications

Emphasis is on the business application of a modern computer using cobol. May not be taken for credit by students who have received credit for S 1701 0183 or equivalent. 3 s.h.

1701 0261 Intro-Computer Applications II

Applications in accounts receivable, payroll and inventory: language cobol. Card, tape, and disc files.

Prerequisites: S 1701 0183, S 1701 0283 CRS in similar field.

3 s.h.

S 1701 0280 Assembly Language & Machine Organization I

Computer structures, introduction to assembler language, subroutine linkage, conversions, input output instructions. 3 s.l.

Prerequisites: S 1701 0184 or S 1701 0261

S 1701 0281 Assembly Language & Machine Organization II

This course is intended to give the student an in-depth understanding of the architecture and design of a modern computer system. Emphasis will be placed on the fundamentals of computer architecture starting with the most general topics. Microprocessors and input/output systems and moving on to more specialized topics involving stack, parallel, overlap and pipeline processing. 3 s.

Prerequisite: S 1701 0280

S 1701 0285 Discrete Math Structures

Combinatorics, sets, graphs, digraphs, trees, networks, lattices, matrices. Semigroups and groups. 3 s.

S 1701 0335 Elements of Linear Algebra

Vectors, vector spaces, systems of linear equations, matrices, determinants and linear transformations. Prerequisite: S 1701 0222 or CRS similar field 3 s

S 1701 0349 Probability

Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial, poisson and normal distributions, applications to statistics. 3 s.

Prerequisite: S 1701 0221 or CRS in similar field

S 1701 0350 College Geometry

Study of euclidean and other geometries from an axiomatic point of view. 3 s.

Prerequisites: S 1701 0221, CRS in similar field

S 1701 0381 Information Processing Methods

Advanced techniques in data processing including modular programming techniques, debugging language, table handling, subscription and indexing, variable length records and tables, declarations and linkages, report generation, tape and disc file processing, searching, sorting, updating and retrieving from files, sequential, indexed sequential and direct-access file organization. The language: Cobol. 3 s.

Prerequisite: S 1701 0261

S 1701 0383 Data Structures

Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures. 3 s.

Prerequisites: S 1701 0261 or S 1701 0184

S 1701 0385 Microcomputers

Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers. 3 s.

Prerequisite: S 1701 0184

S 1701 0386 Computer Circuits and Interfaces

Basic digital and analog computing circuits and interface circuits. Computer-telecommunications interfaces. 3 s.

Prerequisite: S 1701 0385

S 1701 0403 Techniques and Applications of Statistics

Statistical techniques for the social and behavioral sciences including estimation, tests of hypothesis, nonparametric statistics, regression and correlation. May not be taken for credit by mathematics majors. 3 s.

Prerequisite: Instructor's permission

S 1701 0404 Techniques and Applications of Computer Science

An intensive introductory course in computing designed for students in various disciplines using Fortran language. The emphasis will be placed on the problem solving approach and techniques. 3 s.

S 1701 0420 Differential Equations

Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions. 3 s.h.

Prerequisite: S 1701 0222, CRS in similar field

S 1701 0423 Intro-To Complex Variables

This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals. 3 s.h.

Prerequisite: S 1701 0222

S 1701 0425 Advanced Calculus I

Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, mean value theorem, Riemann integral. 3 s.h.

Prerequisite: S 1701 0222

S 1701 0426 Advanced Calculus II

Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence. 3 s.h.

Prerequisite: S 1701 0425

S 1701 0428 Introduction to Topology

Topological spaces, metric spaces, continuity, compactness, connectedness, and separability properties. Topological generalizations of basic continuity theorems of advanced calculus. 3 s.h.

Prerequisite: S 1701 0425

S 1701 0431 Foundations of Modern Algebra

Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples. 3 s.h.

Prerequisite: S 1701 0335, CRS in similar field

S 1701 0433 Theory of Numbers

Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions. 3 s.h.

Prerequisite: S 1701 0221

S 1701 0436 Elements of Logic

Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem. 3 s.h.

Prerequisite: S 1701 0221

S 1701 0440 Statistical Methods for Research

Applications of statistical methods, estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design. 3 s.h.

Prerequisite: S 1701 0340

S 1701 0443 Introduction to Mathematical Statistics

Develops statistical methods from probability theory. Topics: discrete and continuous probability distributions, estimation, inference and hypothesis testing. 3 s.h.

Prerequisite: S 1701 0440

S 1701 0450 Foundations of Geometry

Groups of transformations; an introduction to projective geometry. 3 s.h.

Prerequisite: S 1701 0221, CRS in similar field

S 1701 0460 Intro to Applied Mathematics

Solutions to problems in the real world vectors, matrices, series, periodic motion, theory of relativity and Fourier series. 3 s.h.

Prerequisite: S 1701 0222

S 1701 0463 Intro to Numerical Analysis

Finite differences, approximation theory, linear and non-linear equations, error analysis.

3 s.h

Prerequisites: S 1701 0335, S 1701 0183, CRS in similar field

S 1701 0464 Applied Methods of Operations Research

Topics selected from linear programming, resource allocation, routing, scheduling, inventory models queuing theory, network analysis, pert, dynamic programming, Monte Carlo techniques, decision theory.

3 s.h

Prerequisites: S 1701 0335, S 1701 0340, CRS in similar field

S 1701 0465 Linear Programming-Game Theory

Two-person zero sum games, the normal form, mixed strategies. The minimax theorem, symmetric games, solutions of linear programs, the simplex algorithm, and applications.

3 s.h

Prerequisite: S 1701 0340, S 1701 0335

S 1701 0470 Teaching of Mathematics

Selection, organization and presentation of elementary and secondary mathematics. Classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.

3 s.h

Prerequisite: admission to teacher education program

S 1701 0471 Selected Topics-Modern Math

Professionalized view of junior and senior high school mathematics topics. Functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.

3 s.

Prerequisite: admission to teacher education program.

S 1701 0475 History of Mathematics

Histories of geometry, number theory, algebra, calculus and infinite processes.

3 s.

Prerequisite: S 1701 0221

S 1701 0480 Systems Analysis and File Management

A major project includes forms design, sequential files, merge, sort, and editing programs.

3 s.

Prerequisite: S 1701 0261

S 1701 0481 Operating Systems

System architecture, DOS, OS systems, multi-programming, virtual storage.

3 s

Prerequisite: S 1701 0280 or CRS in similar field

S 1701 0484 Fundamentals of Programming Languages

Syntax and semantics of programming languages. Principles of compilers and compiler construction including object code generation.

3 s

Prerequisites: S 1701 0383, S 1701 0280, CRS in similar field

S 1701 0490 Honors Seminar

This course will concentrate on subject matter not usually covered within other standard mathematics courses.

3 s

Prerequisites: S 1701 0222, instructor's permission

S 1701 0495 Seminar in Mathematics I

Students may do independent work in advanced topics under the supervision of an instructor.

3 s

Prerequisite: Instructor's permission

S 1701 0496 Seminar in Mathematics II

Students may do independent work in advanced topics under the supervision of an instructor.

3 s

Prerequisite: Instructor's permission

Department of Physics and Geoscience

Professor: L. Kowalski, S. Kowalski, Minor

Associate Professors: Hamilton, Ramsdell, Thiruvanthukal, West

Assistant Professors: Hodson (Chairman), Derengowski-Stein, Filas, Hamdan, Kelland, Mak

Montclair State offers Physics programs and Geoscience programs that provide: I.B.S. Degrees in Geoscience and in Physics; minors for majors in other fields; teacher preparation; basic courses for those desiring transfer to engineering or other fields at another institution. The programs provide a background in related sciences and mathematics, as well as depth of courses in the major.

Part of the MSC tradition is that a professor supervises his classes while they are in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors on course material, for guidance in planning a program of studies, or just "to exchange ideas."

Students majoring in mathematics or other sciences, especially those in applied fields, will find a minor in physics or geoscience advantageous. The minor course offering will complement the student's knowledge, preparing him/her for interdisciplinary work in teaching, research, industry, and graduate study. MSC provides a substantial, well-rounded preparation for students planning to enter graduate school. Our program enables students to obtain a balanced background of both experimental and theoretical material. Our graduates have been accepted at many graduate schools, including those of the larger universities in the nation.

Freshman courses offered for majors assume exposure to biology, chemistry and physics as well as three years of preparatory mathematics in high school. A physics major should have four years of high school preparatory mathematics.

Physics Major

Requirements

	Semester Hours
T 1902 0101, 0102 General Physics I, II	4 ea.
T 1902 0210 Mechanics	4
T 1902 0240 Electricity and Magnetism	4
T 1902 0350 Optics	4
T 1902 0460 Modern Physics	4

Required Collateral Courses

R 1905 0120, 0121 General Chemistry I, II	4 ea.
---	-------

Select 4 courses

S 1701 0115 Introductory Mathematical Analysis	3
S 1701 0122, 0221, 0222 Calculus I, II, II	4 ea.
S 1701 0420 Differential Equations	3 ea.

Recommended in addition to the above:

S 1701 0183 Foundations of Computer Science I	3
---	---

Electives with the advice of the departmental academic advisor the student selects at least 1 semester hours from:

T 1902 0242 Circuit Theory	3
T 1902 0245 Electronics	3
T 1902 0280 Astronomy	4
T 1902 0310 Advanced Mechanics	3
T 1902 0320 Thermodynamics	3
T 1902 0340 Advanced Electricity and Magnetism	3
T 1902 0377 Mathematical Physics	3
T 1902 0410 Fluid Mechanics	3
T 1902 0462 Nuclear Physics	4
T 1902 0464 Quantum Mechanics	3
T 1902 0470 Solid State Physics	3
T 1902 0490 Literature Research in Physics	2

T 1902 0495	Laboratory Research in Physics	1-
T 1914 0112	Physical Geology	
REQUIRED TOTAL		3

Physics Minor**Arts and Sciences Program****Requirements**

T 1902 0101, 0102	General Physics I, II	4 ea
T 1902 0210	Mechanics	
T 1902 0240	Electricity and Magnetism	
	Physics Elective	

Second Teaching Field in Physical Science

There is no New Jersey certification in the field of physics alone. Students majoring in a field other than physics and who desire certification in physics may take the physical science program. In addition to the certification program in their major field, the students must take the following program:

T 1902 0101, 0102	General Physics I, II	4 e
	Physics Elective	
R 1905 0120, 0121	General Chemistry I, II	4 e
R 1905 0230, 0232	Organic Chemistry I and Experimental Chemistry I	
REQUIRED TOTAL		7

Geoscience Major**Requirements**

		Semester Hours
T 1914 0112	Physical Geology	
T 1914 0114	Historical Geology	
T 1914 0433	Invertebrate Paleobiology	
T 1914 0434	Stratigraphy	
T 1914 0443	Mineralogy	
T 1914 0444	Petrology	

Collateral Requirements

R 1905 0120, 0121	General Chemistry I, II	4
T 1902 0103, 0104	College Physics I, II	4

Select two courses in mathematics from the list of 4 below:

S 1701 0115	Introductory Mathematical Analysis
S 1701 0116	Calculus A
S 1701 0122	Calculus I
S 1701 0221	Calculus II

Recommended in addition to the above:

S 1701 0183	Foundations of Computer Science I
-------------	---

Elective Courses **minimum of 14 semester hours required**

A. The geoscience major is required to take one course from each of the following groups:

Group 1		Semester Hours
T 1902 0280	Astronomy	
T 1914 0360	Oceanography	
T 1914 0457	Meteorology	

Group 2

T 1914 0410	Geology of New Jersey
T 1914 0445	Optical Mineralogy
T 1914 0472	Structural Geology

B. To satisfy the 14 semester hours minimum requirement in electives, with the advice of the student's departmental academic advisor, the student selects additional courses from the following:

Requirements

	Semester Hours
T 1914 0147 Mineralogy of Gem Materials	3
T 1914 0225 Fundamentals of Environmental Geoscience	3
T 1914 0238 Geology of the Pleistocene	3
T 1914 0250 Map Interpretation and Cartography	3
T 1914 0251 Aerial Photograph Interpretation	3
T 1914 0252 Hydrology	3
T 1914 0254 Geomorphology and Climatology of North America	3
T 1914 0310 Economic Geology	3
T 1914 0320 Contemporary Problems in Conservation of Natural Resources	3
T 1914 0352 Fluvial Geography	3
T 1914 0355 World Regional Geomorphology	3
T 1914 0356 World Regional Climatology	3
T 1914 0360 Oceanography	3
T 1914 0410 Geology of New Jersey	3
T 1914 0452 Geohydrology	3
T 1914 0457 Meteorology	4
T 1914 0460 Physical Oceanography	4
T 1914 0464 Geology of the Oceans	4
T 1914 0465 Coastal Marine Geology	4
T 1914 0466 Field Methods in the Marine Sciences	4
T 1914 0467 Dynamic Beach Processes	2
T 1914 0469 Independent Study in the Marine Sciences	1-4
T 1914 0472 Structural Geology	4
T 1914 0480 Field Studies in Geoscience	4
T 1914 0484 Geology Field Trip	1
T 1914 0490 Seminar in Geoscience	2
T 1914 0495 Independent Study in Geoscience	1-4
REQUIRED TOTAL	
	14

Not all elective courses are offered each year.

Geoscience Minor**Arts and Sciences Program****Requirements**

T 1914 0112 Physical Geology	4
T 1914 0114 Historical Geology	4
Select one of the following two sequences:	
T 1914 0433 Invertebrate Paleobiology	4
T 1914 0434 Stratigraphy	4
or	
T 1914 0443 Mineralogy	4
T 1914 0444 Petrology	4
T 1914 0445 Geoscience Elective	3
REQUIRED TOTAL	
	19

Teacher Education

Students interested in teacher education should follow the professional sequence. In addition, geoscience majors must complete these courses in related science fields to be eligible for a State of New Jersey Science K-12 Certificate.

Requirements

T 1902 0103, 0104 College Physics I, II	4 ea.
Select one	
Q 0401 0105 College Biology	4
Q 0401 0120 Plant Form and Function	4

Q 0401 0130	Invertebrate Zoology	4
Q 0401 0140	Biology of the Cell	3

For physics-teaching majors, the following additional course in a related science field is needed for the comprehensive Science K-12 Certificate.

Select one

Q 0401 0105	College Biology	4
Q 0401 0120	Plant Form and Function	4
Q 0401 0130	Invertebrate Zoology	4
Q 0401 0140	Biology of the Cell	3

REQUIRED TOTAL 14-16

Second Teaching Field in Geoscience

T 1914 0112	Physical Geology	4
T 1914 0114	Historical Geology	4
T 1914 0457	Meteorology	4
T 1902 0280	Astronomy	4
T 1914 0360	Oceanography	4

Select 5 semester hours

T 1914 0238	Geology of the Pleistocene	4
T 1914 0254	Geomorphology and Climatology of North America	4
T 1914 0410	Geology of New Jersey	4
T 1914 0433	Invertebrate Paleobiology	4
T 1914 0443	Mineralogy	4

REQUIRED TOTAL 2

Geoscience Course Descriptions

T 1914 0112 Physical Geology

Materials of the earth; landforms and structures; the processes and agents responsible for the formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had Principles of Geology. 4 s.

T 1914 0114 Historical Geology

Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trip. Prerequisite: T 1914 0112, instructor's permission 4 s.

T 1914 0147 Mineralogy of Gem Materials

Mineralogy of gem materials through lectures, demonstrations and laboratory experience. Sources of gem materials; the cutting and polishing of gem materials. Not for major credit. (2 hours lecture, 3 hours laboratory) 3 s

T 1914 0225 Fundamentals of Environmental Geoscience

The study of the relationships between man and his physical habitat. Earth resources, processes a systems and the engineering properties of natural materials insofar as they are important to, affect, are affected by human activities. Pollution of soil, water, and air will be discussed and analyzed. Field trips will be made to appropriate areas. 3 s

Prerequisites: T 4902 0107 or T 4902 0108 or T 1914 0112

T 1914 0231 Fossils of New Jersey

The collection, preparation, identification and significance of New Jersey fossils. Basic principles classification, morphology, evolution, paleoecology and stratigraphic distribution of fossil organisms. Required field trips. Not open to geoscience majors or to those who have taken Invertebrate Paleobiology. 3

T 1914 0238 The Geology of the Pleistocene

The stratigraphy, geologic history and life of the Pleistocene. Required field trips. 3

Prerequisites: T 4902 0107 or T 4902 0108 or T 1914 0112 3

T 1914 0250 Map Interpretation and Cartography

Basic procedures in map construction from obtaining and evaluating source information through map design, drafting techniques, and preparation suitable for inclusion in reports are developed through drafting exercises and lectures.

3 s.h.

T 1914 0251 Aerial Photograph Interpretation

Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources.

3 s.h.

T 1914 0252 Hydrology

Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. (Also listed as 4 2206: 0252 Hydrology)

3 s.h.

T 1914 0254 Geomorphology and Climatology of North America

Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent.

3 s.h.

T 1914 0310 Economic Geology

Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year)

3 s.h.

Prerequisites: T 1914 0112 or T 4902 0108 and one additional 3 or 4 s.h. course in geoscience.

T 1914 0320 Contemporary Problems in Conservation of Natural Resources

Designed to focus attention on specific environmental problem areas or utilization of resources through assigned readings which provide background for open class discussion.

3 s.h.

Prerequisite: T 1914 0220 or instructor's permission

T 1914 0352 Fluvial Geography

A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyzes the morphology of streams and stream channels. The course is quantitative and stresses processes. (Also listed as 2206 0352 Fluvial Geography).

3 s.h.

T 1914 0355 World Regional Geomorphology

Distribution and geomorphic characteristics of major landforms are studied as to origin, stage of eologic development and interrelationship. (Not offered every year)

3 s.h.

Prerequisite: an introductory course in geoscience or instructor's permission.

1914 0356 World Regional Climatology

Distribution, characteristics and causes of major world climates as related to the controls of climate, climatic anomalies and paleo-climatic changes. (Not offered every year)

3 s.h.

Prerequisites: T 4902 0107 or T 1914 0457 or instructor's permission

1914 0360 Oceanography

Study of the physical and chemical properties of sea water; oceanic circulation; waves and tides; and marine and shoreline processes.

3 s.h.

Prerequisite: CRS in similar field or instructor's permission

1914 0410 Geology of New Jersey

The physical features of New Jersey and their origin; geologic history, stratigraphy, paleobiology, neralogy, structural geology, economic geology. Required field trips.

3 s.h.

Prerequisites: T 1914 0101 or T 4902 0108 or instructor's permission

1914 0431 Invertebrate Paleobiology

Invertebrate fossils, their classification, morphology, evolution, stratigraphic distribution and eocology. Required field trips.

4 s.h.

Prerequisites: T 1914 0114, Q 0401 0130 or instructor's permission

1914 0432 Micropaleobiology

Economic, morphologic, paleoecologic and stratigraphic consideration of common microfossils.

Required field trips.

Prerequisites: T 1914 0114, Q 0401 0130 or instructor's permission

T 1914 0434 Stratigraphy

Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.

4 s.h.

Prerequisite: T 1914 0431 or instructor's permission

T 1914 0437 Sedimentology

Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year) (3 hrs. lecture, 2 hrs laboratory)

4 s.h.

Prerequisite: T 1914 0112 or instructor's permission

T 1914 0443 Mineralogy

Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips.

4 s.h.

Prerequisite: T 1914 0112, R 1905 0121

T 1914 0444 Petrology

Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.

4 s.l.

Prerequisite: T 1914 0443 or instructor's permission

T 1914 0452 Geohydrology

The study of ground-water with particular emphasis given to its mode of migration, chemistry and relation to the geographic environment. Particular attention is given to Darcy's Law, soil porosity, soil permeability and the ability to withdraw water for human consumption. Water pollutants and saltwater incursions are investigated. Spatial distributions are analyzed and the processes examined.

3 s.

T 1914 0457 Meteorology

The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere.

4 s.

Prerequisite: an introductory course in geoscience.

T 1914 0464 Geology of the Oceans

The geology of the oceans, including tectonics, geochemistry, shoreline processes, stratigraphy, sedimentology and related subjects. (Not offered every year).

4 s.

Prerequisite: T 1914 0112 or instructor's permission

T 1914 0472 Structural Geology

Recognition and interpretation of primary and tectonic rock structures; laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips.

3 s.

Prerequisites: T 1914 0114, T 1914 0434, or T 1914 0444

T 1914 0480 Field Studies in Geoscience

Use of geologic, meteorologic and oceanographic instruments in field investigations. Interpretation of observations and writing a field report. Required field trips.

4 s.

Prerequisite: majors only

T 1914 0484 Geology Field Trip

A five-day to one-week trip through areas of geologic significance. A geoscience major is expected to participate in at least two of the trips. Field trip report and collection required. Expenses shared by participants.

1

Prerequisite: geoscience major sequence or instructor's permission

T 1914 0490 Seminar in Geoscience

Student field, laboratory and library investigation of a problem in the area of his/her interest in geoscience. Results presented in oral and written form. Class discussion of the individual papers and other pertinent topics of current interest in geoscience. (Not offered every year)

2

Prerequisite: geoscience major sequence or permission of the instructor

T 1914 0495 Independent Study in Geoscience

An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. (Offered on demand) 1-4 s.h.

Prerequisite: geoscience major sequence or instructor's permission

Physics Course Descriptions

T 1902 0102 General Physics II

Calculus-based course. Mechanical vibrations, sound, optics, electricity and magnetism. Lecture-demonstrations, problem-solving sessions and laboratory experiences. 4 s.h.

Prerequisites: S 1701 0116, Calculus A or S 1701 0122, Calculus 1 or concurrent

T 1902 0103 College Physics I

Non-calculus course for non-physical science majors. Laboratory experiences, mechanics, heat, fluids. 4 s.h.

T 1902 0104 College Physics II

Non-calculus course for non-physical science majors. Laboratory experiences, geometric optics, waves and physical optics, electricity and magnetism, atoms and radioactivity. 4 s.h.

T 1902 0107 Elementary Physics for Home

A laboratory course developing basic principles in the construction, operation and performance of home instruments and utensils. Mechanical, electrical and optical properties of appliances, plumbing, insulation and energy conservation. 3 s.h.

1902 0210 Mechanics

Classical mechanics, kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. 4 s.h.

Prerequisites: T 1902 0101, T 1902 0102, S 1701 0221, CRS in similar field

1902 0240 Electricity and Magnetism

Basic principles of electromagnetism. Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. 4 s.h.

Prerequisites: T 1902 0102, S 1701 0222

1902 0242 Circuit Theory

Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, Fourier analysis of different inputs and outputs, and transmission lines. 3 s.h.

Prerequisites: S 1701 0221, T 1902 0102, T 1902 0210

1902 0245 Electronics

Measuring instruments, transistors, amplifiers, generators and logic circuits are used to explain principles of electronics. (Not offered every year) 3 s.h.

Prerequisite: T 1902 0240

1902 0280 Astronomy

Application of physical laws to the earth as a planet; nature of the other planets' orbital motion and the flight; origin of the solar system; the birth, life, and death of a star; galactic structure and cosmology. 4 s.h.

Prerequisites: T 1902 0101 or T 1902 0103, S 1701 0115

1902 0310 Advanced Mechanics

Classical mechanics: transformations, oscillators, generalized motion, LaGrange's equations, Hamilton's function. Small oscillations, wave propagation. (Offered alternate years) 3 s.h.

Prerequisites: S 1701 0222, T 1902 0210, S 1701 0420

T 1902 0320 Thermodynamics

Thermodynamic systems; laws of thermodynamics; entropy, kinetic theory, transport processes
statistical thermodynamics. (Offered alternate years)

Prerequisites: S 1701 0222, T 1902 0210 or instructor's permission

3 s.

T 1902 0340 Advanced Electricity & Magnetism

Dielectric materials, image calculations, LaPlace's equation, magnetic materials and flux; AC network
non-sinusoidal AC, transients and pulses, electromagnetic radiation. (Offered alternate years)

Prerequisites: S 1701 0420 or instructor's permission

3 s.

T 1902 0350 Optics

Propagation of light, optical components, instruments and photometry. Interference, diffraction and
polarization with elements of spectroscopy. (Offered alternate years)

Prerequisites: S 1701 0222, T 1902 0240, T 1902 0240

4 s.

T 1902 0377 Mathematical Physics

Vector analysis, complex variables, ordinary and partial differential equations, matrices. (Not offered
every year)

Prerequisites: 2 years of physics, S 1701 0222

3

T 1902 0410 Fluid Mechanics

The study of the mechanics of the continuous media. Topics will include fluid statics, basic laws
governing fluid systems and control volumes. Viscous flows, dimensional analysis and similitude, a
potential flow.

Prerequisites: T 1902 0210, S 1701 0222

3

T 1902 0460 Modern Physics

Special relativity, kinetic theory of matter, quantization of electricity, light and energy, nuclear atomic
elementary quantum mechanics and topics on solid state. (Offered alternate years)

Prerequisites: T 1902 0210, T 1902 0240, S 1701 0222

4

T 1902 0462 Nuclear Physics

Nuclear radiation, radioactive decay, detectors, nuclear spectroscopy and reactions, theories and models
fission, fusion, reactors and application of radio-isotopes. (Offered alternate years)

Prerequisites: T 1902 0210, T 1902 0240, S 1701 0222

4

T 1902 0464 Quantum Mechanics

Shroedinger's wave equation, its application and interpretation, Pauli exclusion principle and spectra
(Offered alternate years)

Prerequisites: S 1701 0222, T 1902 0460, T 1902 0464

3

T 1902 0470 Solid State Physics

Properties of solid state matter are developed from the quantum mechanics of atoms and molecules
(Not offered every year)

Prerequisites: S 1701 0222, T 1902 0460

3

T 1902 0490 Literature Research in Physics

Student considers topics in physics and gains facility in literature research techniques, topics in
physics or related to physics education. Students intending to enroll in laboratory research in physics
should use 1902 0490 to provide the literature research related to his/her laboratory problem.
(Offered every year)

Prerequisite: At least 16 credit hours of physics beyond general physics

2

T 1902 0495 Laboratory Research in Physics

Solution of a laboratory problem, research in pure physics or in physics education, written report
required. (Not offered every year)

Prerequisite: At least 16 credit hours of physics beyond general physics

1

Interdisciplinary Science Course Description

T 4901 0101 Man and Technology I

Interdisciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision-making and computer logic, modeling, stability, feedback, and control techniques for the man-made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. 3 s.h.

T 4901 0102 Man and Technology II

Interdisciplinary view of the ideas and techniques of technological civilization. The design of machines, the impact of technology, decision-making and computer logic, modeling, stability, feedback, and control techniques for the man-made world. These are applied to systems in medicine, traffic, pollution, economics and ecology. 3 s.h.

T 4902 0100 Concepts in Science

For non-science majors; modern science, understanding its methods and philosophy, the understanding of their nature rather than mathematical description of the laws. 3 s.h.

T 4902 0103 Technology for the Layman

Simplified description of man-made devices, common technological terms and physical principles behind heaters, air conditioners, airplanes, telephone, radar, nuclear reactors, etc. 3 s.h.

T 4902 0104 History of Science

The historical and philosophical development of science traced from the ancient Egyptians to the present. 3 s.h.

4902 0105 Acoustics

The study of sound for science and non-science majors, applications to music and speech. The nature of sound, wave motion, standing waves and resonance, the ear and hearing, scales and tuning. Musical instruments and the voice, architectural acoustics, and electronic sound recording and reproduction. 2 s.h.

4902 0106 Science and Society

An non-mathematical course; some of the principles of science, their relationship to society as solutions and causes of problems. 3 s.h.

4902 0107 Fundamentals of Geoscience

An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective. 3 s.h.

4902 0108 Principles of Geology

Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken physical geology. 3 s.h.

4902 0109 Earth in Space and Time

The earth, its interactions with sun, moon and planets. Its origin, its major ecologic features and the geologic events of its past, present, and possible future. 3 s.h.

4902 0120 Introduction to Photography

Laboratory and field work, lectures and demonstrations, the construction of cameras, common films and papers, fundamental chemistry and photography, development and printing. A student needs at least one camera. 3 s.h.

4902 0180 Descriptive Astronomy

For the general student. The tools of the astronomer, the nature of the solar system, motions and laws relative to systems, the nature, classification and magnitudes of stars and cosmogony, an historical view. 3 s.h.

T 4902 0199 The Science in Science Fiction

An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics. 3 s.l.

T 4902 0204 Selected Topics in Contemporary History of Science

A study which will consider the most important discoveries of the twentieth century that are changing our world and the events leading to the inventions. These concepts will be related to 20th century idealism, materialism, and ideas of progress. No prior knowledge of science or mathematics is assumed and the course could be used as a sequential to History of Science 4902 0104. 3 s.

T 4902 0220 Photography

Laboratory and field work, lectures and demonstrations, nature of light lenses and optical systems cameras, enlargers, chemicals and principles used in development and printing of films and papers, at special techniques. 3 s.

Prerequisite: T 4902 0120 or Instructor's permission

T 4902 0221 Conservation Natural Resources

The imbalance between natural resources and world population, distribution and growth. Required field trip. 3 s.

T 4902 0222 N.J. Environment Problem & Issue

Designed to focus attention on the physical characteristics of N.J. in order to appreciate and understand the problems encountered in issues involved in management and protection of the natural environment. The significance of location, characteristics of landforms, climate weather patterns, soil and vegetation will be examined together with the human impact on the landscape. 3 s.

T 4902 0235 Dinosaurs, Their Life & Times

The origin, evolution, paleoecology and extinction of the dinosaurs. Required field trip. 3 s.

T 4902 0262 General Oceanography

The physical, chemical, geological and biological aspects of the oceans and their interrelationships. Required field trips. For non-science majors. 3 s.

T 4902 0322 Consumer Science

Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperative industries and testing agencies to evaluate processes and products. Not open to freshmen or sophomores. 3 s.

T 4902 0466 Field Methods in Oceanography and Marine Biology

This course is intended to familiarize the student with the applications and techniques of marine samplings. The nature and role of equipment will be stressed. Field experience at the N.J. Marine Sciences Consortium field station. 2 s.

Science Education Course Description

T 0834 0401 The Teaching of Science in Secondary Schools

The purposes are: to review the educational objectives of science in the public schools; to consider a program of science instruction for secondary schools including the new programs; to study aids to instruction such as texts, manuals, workbooks, tests and enrichment materials; to make a critical review of evaluation in science classes; and to investigate the various special methods of teaching applicable to science instruction. 3 h.

T 0834 0405 The Construction and Use of Molecular Models

Composition, shapes and relative sizes of some common molecules. Construction of scale models. Prerequisites: one year of college chemistry, work in field. 2 h.

T 0834 0409 Senior High School Physical Science Demonstration

This course furnishes teachers of the physical sciences with demonstrations and experiments designed for work in high school chemistry, physics, and applied physical science courses. A detailed study

demonstrations is made with emphasis on visibility and avoidance of failure. Emphasis is placed on sources of new demonstrations for the teacher. (Offered in alternate years) 2 s.h.

T 0834 0410 Junior High School Science Demonstration

This course covers the methods of experimental instruction appropriate to grades seven, eight, and nine. A detailed study is made of demonstrations for general science at their levels. (Offered in alternate years) 4 s.h.

T 0834 0460 Marine Science Education

Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the N.J. Marine Sciences Consortium. 2 s.h.

Prerequisite: undergraduate science major sequence including a 400-level oceanography course and a science methods course, or permission of instructor. Majors only. CRS in similar field.

T 1999 0210 Introduction to Marine Sciences

A field-oriented lower division undergraduate course covering the principal disciplines in the marine sciences. The course is designed for the student to evaluate his interest in the marine science world. Offered at the N.J. Marine Sciences Consortium. 4 s.h.

T 1999 0310 Oceanography

Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes. Offered at N.J. Marine Sciences Consortium. 3 s.h.

Prerequisite: advanced standing in physical or biological sciences

T 1999 0411 Physical Oceanography

A survey of modern oceanography and its methods including characteristics of sea water, theories of ocean currents, and, in general, applications of biological, geological, physical, meteorological and engineering sciences to the study of the oceans. Offered at the site of the N.J. Marine Sciences Consortium. 4 s.h.

Prerequisites: 1 year calculus, 1 year physics or instructor's permission

1999 0422 Biology of Marine Plankton

Study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near-shore and estuarine environment. Field trips will be made to coastal New Jersey. Offered at N.J. Marine Sciences Consortium. 2 s.h.

Prerequisites: Instructor's permission, Q 401 0120 or Q 0401 0121 or CRS in similar field.

1999 0450 Marine Botany

An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Also offered at the site of N.J. Marine Sciences Consortium. 4 s.h.

Prerequisites: Instructor's permission, Q 401 0120 or Q 0401 0121 or CRS in similar field.

1999 0481 Coastal Marine Geology

Study of the geologic processes concerned with the supra-, inter- and sub-tidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well as general sedimentation associated with modification of barrier beaches and other landforms of the New Jersey shoreline. Offered at the N.J. Marine Sciences Consortium. 4 s.h.

Prerequisite: T 1914 0437 or Instructor's permission

1999 0483 Dynamic Beach Processes

Study of the processes and forces involved in material transport within the beach zone. Also offered at the N.J. Marine Sciences Consortium. 2 s.h.

Prerequisite: T 1914 0437 and T 1914 0360 or Instructor's permission

1999 0484 Tidal Marsh Sedimentations

Processes involved in sediment transport and deposition within the marsh system. Geologic history of tidal marshes. Offered at N.J. Marine Sciences Consortium. 2 s.h.

Prerequisite: advanced standing in geoscience, T 1914 0437

T 1999 0498 Independent Study in the Marine Sciences

Individual research projects will be selected under the guidance of a professor associated with the consortium. Open only to those advanced undergraduate students who have indicated a potential for original thinking. Offered at N.J. Marine Sciences Consortium.

1-4 s.h.

Prerequisite: Instructor's permission



School of Professional Arts and Sciences

Katharine B. Hall (Interim), Ph.D., Dean

Michael A. Puglisi, M.B.A., Associate Dean

Frederick Kelly, Ph.D., Director, Business Studies

Academic Counselors: Gabriella DiVirgilio, M.A., Mark Schaefer, M.A.,

Gladys Tate, M.A., William Welsch, M.A., Coordinator

The School of Professional Arts and Sciences is responsible for instruction, research and administration in a number of professional programs and services both on- and off-campus.

A wide variety of professional and teacher training programs are offered through the following departments of the School:

Department

Administrative Sciences

Business & Distributive Education

Health Professions

Home Economics

Industrial Education & Technology

Physical Education

Recreation Professions

Program

Business Administration

Accounting

Finance

Management & Organizational Behavior

Marketing

Quantitative Methods

Accounting Education

Distributive Education

Office Systems Administration

Secretarial Practice Education

Allied Health Services

Health Education

Consumer Affairs

Family & Child Studies

Food Services Management

Foods & Nutrition

Home Economics Education

Industrial Education

*Vocational-Technical Teacher

Education

Physical Education

Physical Education & Health

Commercial Recreation

Community & Municipal Recreation

Recreation Therapy

Outdoor Recreation

General Recreation

These programs lead to professional careers in industry, non-profit institutions, governmental agencies and services, or to the teaching proficiency and certification for training others in these areas.

Although the School is the largest unit of the College, it maintains personalized relationships through strong student-faculty involvement through departmental and school-wide organizations.

The School coordinates several important programs and activities not located in traditional academic departments. The most significant of these is the New Jersey School of Conservation, a major environment and outdoor education center, which is administered by the College.

The School also houses the Panzer School Council, which coordinates curriculum development and the use of facilities for the Departments of Health Professions, Physical Education, and the Recreation Professions.

Non-degree program leading to certification only.

Department of Administrative Sciences

Professors: Kelly (Chairman), Blumberg, A., Greco, Namias, Reinharth, Turner, Waters

Associate Professors: Blumberg, H., Chen, DiPietro, Kallman, Mirchin, Neelankavil

Assistant Professors: Amar, Aquilino, Chaney, Douma, Goldberg, Hessel, Konzelman, MacDonald, McShea, Min, Oppenheim, Primiano, Schan-cupp, Shah, Shapiro, Simonson, Stein

Instructors: Freimark, Kirkpatrick, Plank, Rosania, Zuker

A major in Business Administration is offered through the department, along with a wide variety of courses and services to students in other departments of the College.

Curricula are intended to provide:

1. the managerial and technical business skills essential to a variety of job opportunities;
2. analytical skills for solving business and related problems;
3. decision-making skills necessary to a strong executive;
4. administrative knowledge required in many professional functions;
5. the capacity to understand and adjust to current and future business conditions, systems and relationships;
6. the experience and confidence necessary for success in the competitive business environment.

Students expecting to major within the department should schedule mathematics, economics and other general education courses during their first years, in preparation for a strong concentration in professional courses in the latter years of college.

The major in Business Administration offers several concentration areas: professional & managerial accounting; finance, organization & management; marketing; quantitative methods and general business. Each provides a broad understanding of business functions and procedures through a common core of courses and an in-depth concentration curriculum.

Accounting

The concentrations in accounting prepare students for industrial, governmental or institutional positions. Industrial accountants design and supervise financial and managerial accounting systems for entire firms, including preparation and analysis of accounting reports. Governmental or institutional accountants perform similar services at various levels of those agencies and organizations.

Certified Public Accountants (CPAs) render independent audits, accounting, tax and managerial advisory services to various clients, primarily in the private sector. Students wishing to sit for the CPA examination in New Jersey and New York need 24 credits in accounting including coverage of cost accounting, tax accounting and auditing, as well as six credits in finance and six credits in business law.

Finance

This area of concentration provides the student with a professional background in both corporation finance and investments. The requirements for concentration are arranged to allow the student to specialize in one of the above two if he/she so desires. The courses are planned on a sequential basis and the student desirous of a concentration in this existing field is advised to plan well ahead and complete early the quantitative and economics courses so as to make the best use of the field. Many of the courses offered by the economics department can be taken as electives to improve the understanding and mastery of the field.

Management and Organizational Behavior

This concentration provides professional education in large organization theory and behavior, the management of human resources, operations and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

Marketing

The marketing concentration provides knowledge of corporate marketing policies and procedure, persuasion and other communications, product development and display, sales organization and management, retailing and distribution systems and consumer and marketing research. It is appropriate

for students wishing to enter into the sales, advertising, product management, retailing, public relations and consumer research areas of the economy.

Office Systems Administration

Please see business and distributive education department: Page 00.

Quantitative Analysis

This area provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with increasingly important computer applications, are handled in-depth to permit a student to become comfortable in the handling of statistics, computer science, operations research and similar quantitative subjects.

General Business

The student who does not select a specified concentration, but desires breadth in preparation for a business career, augments the required business core with a selection of twelve credits from the professional concentrations.

I. Requirements

	Semester Hours
U 0502 0201 Fundamentals of Accounting I	3
U 0502 0202 Fundamentals of Accounting II	3
U 0501 0310 The Management Process	3
U 0509 0340 The Marketing Process	3
U 0506 0261 Legal Environment of Business I	3
U 0503 0270 Statistics for Business	4
U 0501 0315 Organizational Behavior	3
U 0504 0321 Fundamentals of Finance	3
U 0503 0371 Management Science	4
U 0501 0439 Business Policy	3
U 0503 0463 Admin. Research & Analysis	3
U 0503 0273 Business Info Systems	3

The following collateral courses may be applied to General Education requirements: 1701 0113, 1701 0114; 2204 0101, 0102.

II. Concentrations and electives as below.

Concentration in Accounting

Managerial Accounting

U 0502 0301, 0302 Intermediate Accounting I, II	4 ea.
U 0502 0303 Auditing Theory and Practice	3
U 0502 0307 Cost Accounting and Control I	3
Select Two	
U 0502 0308 Cost Accounting and Control II	3
U 0503 0371 Management Information Systems	3
U 0502 0401 Advanced Accounting	3
U 0502 0403 Tax Accounting	3
U 0502 0405 Profit Planning and Control	3
U 0502 0407 Accounting Systems and Data Processing	3

Professional Accounting

U 0502 0301, 0302 Intermediate Accounting I, II	4 ea.
U 0502 0303 Auditing Theory and Practice	3
U 0502 0307 Cost Accounting and Control I	3
U 0502 0403 Tax Accounting	3
Select One	
U 0502 0308 Cost Accounting and Control II	3
U 0503 0371 Management Information Systems	3
U 0502 0401 Advanced Accounting	3
U 0502 0404 Current Tax Problems	3

Concentration in Finance**Requirements**

U 0504 0322	Capital Budgeting Management	3
U 0504 0326	Investment Principles	3
U 0504 0327	International Financial Management	3
Select One		
U 0504 0328	Multinational Money Management	3
U 0504 0423	Capital Structure Management	3
U 0504 0424	Capital Management	3
U 0504 0425	Working Capital Management	3
U 0504 0427	Security Analysis	3
U 0504 0428	Portfolio Theory & Its Application	3
U 0504 0429	Real Estate Investment	3

Concentration in Management and Organizational Behavior**Requirements**

U 0501 0316	Human Resource Management	3
Select Three		
U 0501 0332	Minorities in Business	3
U 0501 0335	Small Business Management	3
U 0501 0336	International Business Management	3
U 0506 0363	Business and Society	3
U 0503 0371	Management Information Systems	3
U 0503 0372	Management Science	3
U 0501 0431	Middle and First Line Management	3
U 0501 0433	Entrepreneurship and Innovation	3
U 0501 0434	Comparative Management Systems	3

Concentration in Marketing**Requirements**

U 0509 0343	Promotion and Persuasion	3
U 0509 0442	Marketing Research	3
U 0509 0446	Marketing Strategies	3
Select Two		
U 0509 0342	Concentration in Marketing	3
U 0509 0344	Advertising Media	3
U 0503 0386	Logistics Systems	3
U 0509 0341	Consumer Motivation	3
U 0509 0349	International Marketing	3

Concentration in Quantitative Methods

Select Four

U 0503 0274	Business Computer Programming	3
4 0503 0371	Management Information Systems	3
U 0503 0374	Computer Management	3
U 0503 0375	Operations Analysis	3
U 0503 0474	Business Forecasting	3
U 0503 0475	Quantitative Decision-Making for Business	3

III. Departmental Electives

15-1

**Administrative Sciences
Course Descriptions****U 0501 0310 The Management Process**

The field of management theory and practice; classic principles and the behavioral aspects of organization life, especially motivation and interpersonal relationships; quantitative tools as decision aids, especially in production and operations.

3 s.

U 0501 0315 Organizational Behavior

Major approaches to the study of organizations. Organizational systems and structure, systems of communication, power and influence, organizational conflict, coordination and control, leadership, motivation, interpersonal dynamics and change and renewal. 3 s.h.

Prerequisites: U 0501 0310, 3 s.h. of anthropology, psychology or sociology.

U 0501 0316 Human Resource Management

Motivating managerial and non-managerial employees; effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees. 3 s.h.

Prerequisite: U 0501 0310

U 0501 0317 Motivation and Leadership

In-depth analysis of the human element analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and non-professional work activities. The development of skills for practical application; case studies. 3 s.h.

Prerequisite: U 0501 0315

U 0501 0332 Minorities in Business

Methods, techniques and problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firm; minority group members as entrepreneurs; relationships with other members of an organization. 3 s.h.

Prerequisites: U 0501 0310, U 0509 0340

U 0501 0335 Small Business Management

The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth. 3 s.h.

Prerequisites: U 0501 0310, U 0509 0340, U 0504 0321

U 0501 0336 International Business Management

General theory on international trade; the mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.

Prerequisite: 3 2204 0102

3 s.h.

U 0501 0414 Management Theories Behavioral Approaches

Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.

Prerequisite: U 0501 0315

3 s.h.

U 0501 0431 Middle & First Line Management

The specific functions which middle and first line managers must perform in a production operation, designed so that the student upon graduation can move directly into a management position. The effects of change in management philosophies and the need to acquaint the student with these changes.

Prerequisites: U 0501 0310, U 0502 0202

3 s.h.

U 0501 0433 Entrepreneurship & Innovation

Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise; examples of successful entrepreneurship role-playing and situational exercises. 3 s.h.

Prerequisite: U 0501 0310

U 0501 0434 Comparative Management Systems

Multi-national corporations expanding into areas with new sociological and cultural constraints. Problems of management in the public sector as contrasted with the private sector. Management in

newly-developed economies and in highly-industrialized economies; public corporations, non-profit organizations, mixed enterprise.

3 s.h

Prerequisite: U 0501 0310 U 0501 0315

U 0501 0439 Business Policy

Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities Decision-making under conditions of risk and uncertainty; planning and strategy in a changing environment; reconciling departmental goals and company objectives through the systems approach the effects of corporate decisions on public policy. Case studies and simulation games.

3 s.h

Prerequisite: Instructor's permission; seniors only

U 0502 0200 Accounting Non-Business Majors

This is a basic course in the concepts and uses of financial data as it relates to business decision making

3 s.h

Prerequisite: Not for 0506 majors

U 0502 0201 Fundamentals of Accounting I

Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance preparing financial statements, and closing books; special journals and controlling accounts.

3 s.h

U 0502 0202 Fundamentals of Accounting II

Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.

3 s.h

Prerequisite: U 0502 0201

U 0502 0301 Intermediate Accounting I

The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.

4 s.h

Prerequisite: U 0502 0202

U 0502 0302 Intermediate Accounting II

A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.

4 s.h

Prerequisite: U 0502 0301

U 0502 0303 Auditing Theory and Practice

The conduct of audits of various types; the balance sheet; audit working papers; correction of book and preparation of audit reports.

3 s.h

Prerequisite: U 0502 0302

U 0502 0307 Cost Accounting & Control I

The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision making.

3 s.h

Prerequisite: U 0502 0202

U 0502 0308 Cost Accounting & Control II

Estimating cost, budgets and cost, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.

3 s.h

Prerequisite: U 0502 0307

U 0502 0401 Advanced Accounting

Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales.

3 s.h

Prerequisite: U 0502 0302

U 0502 0403 Tax Accounting

A comprehensive picture of the Federal tax structure, the determination of net income, credit exemptions and rates for various taxpayers.

3 s.h

Prerequisite: U 0520 0202

U 0502 0404 Current Tax Problems

Advanced phases of income taxation with particular attention to corporation, partnerships and estates.
Prerequisite: U 0502 0403 3 s.h.

U 0502 0405 Profit Planning and Control

Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production, and flexible budgets. 3 s.h.

Prerequisite: U 0502 0307

U 0502 0407 Accounting Systems and Data Processing

Analysis of accounting systems and the organization of accounting information for use with manual and automated methods. 3 s.h.

Prerequisite: U 0502 0202

U 0502 0409 CPA Review

Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the state of New Jersey.) 3 s.h.

Prerequisite: U 0502 0303

U 0503 0270 Statistics for Business

Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation sampling, decision analysis, non-parametric methods, regression and time series analysis. 4 s.h.

Prerequisites: S 1701 0113, S 1701 0114

U 0503 0273 Business Information Systems

Computers used in developing business information systems. Topics include history of data processing and information systems, needs of high speed equipment, numbering systems, data representation, programming concept, and use of business application program. 3 s.h.

U 0503 0362 Business Economics

Managerial decision-making; the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills. 3 s.h.

Prerequisites: 3 2204 0101 or 3 2204 0102 or U 0501 0310

U 0503 0371 Management Information Systems

Total information systems from the perspective of organizations. Information from the management point of view; its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting. 3 s.h.

Prerequisites: U 0502 0202, U 0501 0310, U 0503 0270

U 0503 0372 Management Science

The student is exposed to a wide variety of mathematically oriented problem solving techniques used in the modern business world. Included are topics of decision theory, inventory theory, linear programming, transportation analysis game theory, Markov analysis, queuing theory, and pert.

Prerequisite: U 0501 0310 U 0503 0270

4 s.h.

U 0503 0374 Computer Management

Optimum selection of computer hardware, software and operating systems among various alternatives, from a cost effectiveness point of view. 3 s.h.

Prerequisite: U 0503 0371

U 0503 0375 Operations Analysis

Mathematical and statistical methods in the analysis of specific business systems and industrial production activities; inventory control, production planning and scheduling, and capital management. Computers used to solve problems involving complex calculations. 3 s.h.

Prerequisite: U 0503 0372

U 0503 0386 Logistics Systems

The logistics sub-system in the economy and the firm, definitive methods of attacking logistic problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business.

3 s.l

Prerequisites: U 0501 0310 U 0509 0340

U 0503 0463 Administrative Research Methodology and Analysis

Scientific investigation; data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.

3 s.l

Prerequisite: U 0503 0272, seniors only

U 0503 0474 Business Forecasting

Mathematical and econometric models for short- and long-range business forecasting. Model evaluated for accuracy; the computer as a tool in developing automated forecasting systems.

3 s.l

Prerequisite: U 0503 0270

U 0503 0475 Quantitative Decision-Making for Business

Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and simulation applied to typical managerial problems.

3 s.

Prerequisites: U 0501 0310 U 0509 0340 U 0503 0270

U 0504 0321 Fundamentals of Finance

The statement of sources and uses of funds; determining specific assets to acquire, and financing them. Financial institutions, debt and equity instruments of finance, short and long-term financing, insurance against risk and uncertainty, optimum capital structure, selection of alternative investments, dividend and interest policies.

3 s.

Prerequisites: U 0502 0202 3 2204 0101 3 2204 0102

U 0504 0322 Capital Budgeting Management

Analysis of capital expenditures under certainty and uncertainty; lease or purchase decision; merge and acquisitions; capital reinvestment; extensive use of quantitative tools. Case studies from business situations and current readings.

3 s.

Prerequisites: 3 2204 0101 3 2204 0102 U 0506 0270

U 0504 0326 Investment Principles

Financial assets and markets; investor's attitude, goals and constraints; risk-return characteristics securities analysis of the company, the industry and the market and other factors affecting the risk return combination introduction to valuation of securities and portfolio management.

3 s.

Prerequisites: U 0506 0321 3 2204 0101 3 2204 0102

U 0504 0327 International Financial Management

A description and analysis of the unique financial opportunities and problems facing the firm involved in international business activities. Techniques include sources and uses of funds in international environment, short-term international cash and securities management, hedging techniques, capital budgeting and capital costs for the international firm.

3 s.

Prerequisite: U 0504 0321

U 0504 0328 Multinational Money Management

Planning of cash management for the firm from the multi-national perspective; cash flows and current assets and liabilities are analyzed as they are affected by multi-national tax regulations, foreign exchange rates, international market situations and government policies. The impact of currency movements on financial statements, e.g. under FASB nos. 8, 12, etc. and computer implications and applications will be considered.

3 s.

Prerequisites: U 0502 0202 U 0504 0321

U 0504 0423 Capital Structure Management

Development of a firm's optimum capital structure. Analysis of traditional attitudes on debt-equity Modigliani and Miller's hypothesis, and other leading authors' attitudes from current literature. Co

of capital to growing companies and stable companies for common stock, debt, preferred stock and retained earnings; dividend policies, public offerings. 3 s.h.

Prerequisite: CRS in similar field.

U 0504 0425 Working Capital Management

Detailed analysis of a corporation's sources and uses of short-term funds; optimum levels of cash, inventory, accounts receivable, and accounts payable; depreciation; use of surplus cash, commercial paper and financial intermediaries. 3 s.h.

Prerequisite: U 0506 0321

U 0504 0427 Security Analysis

Critical examination of investment theories; analysis of securities, primarily of private corporations; evaluations of factors affecting the return from a security; forecasting the return-risk characteristics of stocks and bonds; introduction to portfolio strategies and workable criteria for the selection (or rejection) of these securities. 3 s.h.

Prerequisite: U 0504 0326

U 0504 0428 Portfolio Theory and Its Applications

Application of covariance principle in valuation of securities; critical look into management of risk in financial investments; application of this portfolio theory in investment strategies and management of financial institutions, their specific problems, constraints, goals and strategies. 3 s.h.

Prerequisite: 6 credits in Finance.

U 0504 0429 Real Estate Investment

Covers mortgage financing, ownership forms, tax factors, inflation, leverage, risk/return, cash flow projection, holding period, and disposition strategy. Examines the rent or buy housing decision; land, apartment building, office building, and shopping center investments and the current investment climate. 3 s.h.

Prerequisite: U 0504 0321

U 0506 0261 Legal Environment of Business I

A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material. 3 s.h.

U 0506 0262 Legal Environment of Business II

An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CAP preparation). 3 s.h.

Prerequisite: U 0506 0261

U 0506 0263 Legal Environment of Business III

An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basic statutory sources employed are the Uniform Partnership Act and the Model Business Corporation Act. Case material. 3 s.h.

Prerequisite: U 0506 0261

U 0506 0363 Business and Society

Business as an institution in our pluralistic society; its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future; strengths, weaknesses and overall contribution to society; ecology, minority groups and the quantity and quality of economic growth. 3 s.h.

U 0506 0392 Business Internship

Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems. 1-3 s.h.

Prerequisite: Instructor's permission

U 0506 0464 Legal Problems of the Marketing Process

The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation

designs, tabulation and report presentation.
Prerequisites: U 0509 0340 U 0503 0270

3 s.h.

U 0509 0446 Marketing Strategies

Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making; sophisticated techniques for problem-solving. Case studies help to develop an analytical posture.

3 s.h.

Prerequisite: U 0509 0442

Department of Business and Distributive Education

Professors: Rossetti (Chairman), Hecht, Nanassy

Assistant Professor: Cyrus, McCauley

Instructors: Mangold, Uzzolino

One objective of the department is to prepare students to teach general business subjects in secondary schools in combination with:

1. bookkeeping and accounting;
2. secretarial subjects; or
3. distributive education subjects such as marketing, retail merchandising and advertising.

Students in those programs follow a professional sequence, qualifying them for a New Jersey Teaching Certificate.

Another objective of the department is to prepare office supervisors, administrative office managers, or administrative service managers equipped to manage the changing office structure.

All work in Business and Distributive Education is open to students who have never studied business subjects before entering college.

Students in the business teacher education major must complete a minimum of 400 hours of full-time related business experience, during a summer session prior to the senior year.

Students in the distributive teacher education major must complete a minimum of 800 hours of full-time related distributive occupational experiences, during two summer sessions prior to the senior year.

Phi Beta Lambda serves all secretarial or accounting education majors, and the Distributive Education Clubs of America (DECA) all distributive education majors; students are required to join and participate in activities.

The department also has two honorary fraternities, Pi Omega Pi and Epsilon Delta Epsilon. Students who have achieved high academic standards are invited to become members.

Business and Distributive Education Major**I. Professional Sequence (identical for all three majors)****Semester Hours**

0821 0220	Philosophical Orient to Ed.	3
2001 0200	Educational Psychology	3
0838 0401	Prin. & Mech. Tchg. Gen. Bus.	2
0838 0402	Prin. & Mech. Tchg. Acct.	1
0829 0410	Field Exper. in Ed.	1
0808 0407	Develop Rdg.: Prin. & Tech. I	3
0808 0408	Develop Rdg.: Prin. & Tech. II	3
0829 0400	Teacher, School & Society	3
0829 0401	Senior Field Experience	3
0829 0402	Seminar in Professional Ed.	1
0829 0411	Supervised Student Tchng.	8
REQUIRED TOTAL		31

I. Collateral courses 2204 0101, 0102 and 1701 0109 or 0110 may be applied to general education requirements.

III. Specializations.

Accounting and General Business Education Requirements

Semester Hour

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 ea
U 0501 0231	The Management Process	
U 0509 0241	The Marketing Process	
U 0506 0261, 0266	Legal Environment of Business I, II	3 ea
U 0502 0301, 0302	Intermediate Accounting I, II	3 ea
U 0504 0321	Principles of Finance	
V 0838 0101	Introduction to Business	
V 0838 0309	Consumer Economics	
V 0838 0320	Business Communications	
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	
V 0838 0402	Principles and Methods of Teaching Accounting	
V 0838 0406	Office Management and Procedures—Clerical	
V 0838 0434	Introduction to Data Processing	
V 0838 0435	Computer Application of Office Systems	
V 0838 0449	Supervised Business Work Experience	
REQUIRED TOTAL		51

Electives

*One credit allocated to professional sequence

Secretarial and General Business Education

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 e
U 0501 0231	The Management Process	
U 0509 0241	The Marketing Process	
U 0506 0261, 0262	Legal Environment in Business I, II	3 e
V 0838 0101	Introduction to Business	
V 0838 0203	Production Typing	
V 0838 0303	Advanced Steno and Transcription	
V 0838 0309	Consumer Economics	
V 0838 0320	Business Communications	
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	
V 0838 0403	Principles and Methods of Teaching Stenography	
V 0838 0406	Office Management and Procedures—Clerical	
V 0838 0407	Office Management and Procedures—Secretarial	
V 0838 0434	Introduction to Data Processing	
V 0838 0435	Computer Application of Office Systems	
V 0838 0449	Supervised Business Work Experience	
REQUIRED TOTAL		

Electives

Distributive and General Business Education

U 0502 0201, 0202	Fundamentals of Accounting I, II	3 e
U 0501 0231	The Management Process	
U 0509 0241	The Marketing Process	
U 0506 0261, 0262	Legal Environment in Business I, II	3 e
U 0509 0343	Promotion and Persuasion	
V 0838 0101	Introduction to Business	
V 0838 0340	Foundations of Voc. Ed. for Bus. and Dist. Ed.	
V 0838 0401	Principles and Methods of Teaching General Business	
V 0840 0208	Salesmanship	
V 0840 0219	Merchandise Information	
V 0840 0348	D.E. Practicum I	
V 0840 0411	Retail Store Math and Management	
V 0840 0422	Visual Merchandising	
V 0840 0423	Buying for Distribution	

V 0840 0450	Supervised Work Experience I and II	2 ea.
V 0840 0455	Curriculum Organization and Administration—D.E	3
	REQUIRED TOTAL	50
Electives		3

Office Systems Administration**

The following represent the majority of the requirements for this program. A consultation with your faculty advisor is essential to clarify specific details of the final program.

I. Collateral courses 3 2204 0101, 0102 and S 1701 0109 may be applied to general education requirements.

II. Requirements

		Semester Hours
V 0838 0101	Introduction to Business	3
V 0845 0320	Business Communications	3
V 0845 0321	Records Management	3
V 0845 0406	Office Services & Procedures—Clerical	3
V 0845 0408	Principles of Office Management	3
V 0845 0409	Word Processing Management	3
V 0845 0410	Seminar in Office Administration	3
V 0838 0434	Introduction to Data Processing	3
V 0838 0435	Computer Applications of Office Systems	3
U 0502 0201, 0202	Fundamentals of Accounting I, II	6
U 0501 0231	Management Process	3
U 0509 0341	Marketing Process	3
U 0506 0261	Legal Environment of Business I	3
U 0501 0316	Human Resource Management	3

III. Electives Selected from Major 12

**This is a concentration in Business Administration which is administered by the Department of Business and Distributive Education.

Business Education Course Descriptions

V 0838 0101 Introduction to Business

The functions of business, bank services, credit, insurance, forms of business organization, location and layout, purchasing and stock control, production problems, finance and personal problems. 3 s.h.

V 0838 0103 Beginning Typewriting

For students with no previous instruction. Learning to touch typewrite; the typewriter as a communications tool in the preparation of basic letters, reports, tables and other applications. 2 s.h.

V 0838 0104 Intermediate Typewriting

Increasing speed with accuracy; applying skill in the production typewriting of business-related projects; extending competency to qualify for office employment. 2 s.h.

Prerequisite: V 0838 0103

V 0838 0203 Production Typewriting

Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting. 1 s.h.

Prerequisite: V 0838 0104

V 0838 0205 Beginning Stenography

The theory of Gregg Diamond Jubilee stenography. Learning to read shorthand fluently and to take dictation on familiar material. 3 s.h.

V 0838 0206 Intermediate Stenography and Transcription

Gregg stenography theory reviewed; unfamiliar dictation given at moderate speeds; vocabulary building; transcription techniques. 3 s.h.

Prerequisite: V 0838 0205

V 0838 0303 Advanced Stenography and Transcription

Taken in conjunction with Methods of Teaching Shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques increasing dictation speed for new material as the course progresses. 2 s.h.

Prerequisite: V 0838 0206

V 0838 0309 Consumer Economics

The role of the consumer in the economy is studied by emphasizing how government and business policies, laws, and practices affect the consumer and his standard of living. Government regulatory law and regulations, government policies on the control of money and inflation and how they affect the consumers are discussed. Business and labor policies and practices are emphasized in the areas of credit, savings, and housing. 3 s.h.

V 0838 0310 Consumer Finance

The following areas are studied with emphasis on informing the students on how business and government policies and practices affect their standard of living: taxes, insurance, securities, and estate planning. 3 s.h.

V 0838 0340 Foundations of Vocational Education for Business and Distributive Education

Junior professional course for business/distributive education majors. Students will be exposed to vocational programs which are currently found in the secondary school setting, with emphasis on practices and principles of business and distributive education curriculum and priorities. Student observation in public schools will be an intricate part of the course. 3 s.h.

V 0838 0390 Business Independent Study I

Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairman. 2 s.

V 0838 0391 Business Independent Study II

Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairman. 2 s.

V 0838 0401 Principles and Methods of Teaching General Business

The methodology of teaching general business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures. 2 s.

Prerequisite: 12 CRS of general business courses

V 0838 0402 Principles and Methods of Teaching Accounting

The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurement of audio-visual and other teaching aids. A test of subject matter competency is required. 2 s.

Prerequisite: 12 CRS of accounting

V 0838 0403 Principles and Methods of Teaching Stenography

Complements V 0838 0303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the material and methods for teaching stenography. 1 s.

Prerequisite: V 0838 0206

V 0838 0404 Principles and Methods of Teaching Typewriting

Complements 0838 0204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development. 1 s.

Prerequisite: V 0838 0203

V 0838 0406 Office Services and Procedures—Clerical

Exploring current office equipment, trends and techniques. Hands-on operation of business equipment including calculators, duplicators, dictators/transcribers and special typewriters. 3 s.

V 0838 0407 Office Services and Procedures—Secretarial

For prospective teachers of secretarial studies. The secretary's role in the modern office environment

Executing long-range projects, working in team situations and experiencing hands-on operation of duplicating, transcription, dictation and special typewriters. 3 s.h.
 Prerequisite: V 0838 0406, V 0838 0203, V 0838 0206

V 0838 0420 Field Studies for Business Education

Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited. 2 s.h.

V 0838 0434 Introduction to Business Data Processing

The literature and vocabulary of business data processing input and output media; types of equipment, installations, job analysis and systems development. From basic manual procedures to modern computer concepts, including business problem programming in the Cobol language. 3 s.h.
 Prerequisite: V 0502 0201

V 0838 0435 Computer Applications of Office Systems

Focus will be on the functions of the computer in office systems. The business education student will study basic elements of the Cobol computer language and utilize this knowledge in solving problems common to the office management setting. Laboratory problems will concentrate on the design, utilization, interpretation, and evaluation of computer applications to functions of the office manager. Prerequisite: V 0838 0434 3 s.h.

V 0838 0449 Supervised Business Work Experience

An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program. 2 s.h.

V 0838 0480 Touch Shorthand in Recording Communication

Keyboard reaction patterns and theory concepts of the touch shorthand machine; developing basic skills and a knowledge of the machine's operation. Methods of presentation and organizing and evaluating course in touch shorthand. 2 s.h.

Distributive Education Course Descriptions

0840 0208 Salesmanship

Fundamentals: some of the concepts of the behavioral sciences and finance, as well as marketing. The actions of the industrial salesman; the retail salesman. Student sales demonstrations apply the theories of selling. 3 s.h.

0840 0249 Merchandise Information

Textile and non-textile information; background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products. 2 s.h.

0840 0348 Practicum in Distributive Education I

Minor professional experience for distributive education majors. Observation of distributive education majors. Observation of distributive education classes and deca activities. Teaching distributive subjects in community programs and governmental agencies. 1 s.h.
 Prerequisite: Acceptance in teacher education program in distributive education. CRS in similar field.

0840 0349 Practicum in Distributive Education II

Students select an education setting from their observations in practicum I. Concentration in the setting gives insight into the role of a distributive education teacher, the program and the students. Work on class activities at the collegiate level. 1 s.h.

0840 0411 Retail Store Merchandising and Management

Problems involved in the successful operation of a retail organization. Preparation of the store for business, movement of merchandise for sale, movement of goods to the selling floor and to the customer. 3 s.h.

0840 0422 Visual Merchandising

Principles and elements of color, line, form, texture and space as they relate to displays, merchandising

and advertising. Display space, lighting arrangements, improvisation of display equipment, the use of paper mache forms, seasonal displays, equipment and care of display fixtures. 3 s.h.

Prerequisite: Instructor's permission

V 0840 0423 Buying for Distribution

Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying. 2 s.h.

V 0840 0450 Supervised Work Experience and Seminar I

Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years. 2 s.h.

Prerequisites: V 0840 0208, U 0509 0241; majors only

V 0840 0451 Supervised Work Experience Seminar II

Full time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited price variety store, weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years. 2 s.h.

Prerequisites: V 0840 0208, U 0509 0241; majors only

V 0840 0454 Principles and Methods of Teaching Distributive Education and Coordination

Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects: lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the De Club as teaching device. 3 s.l.

Prerequisite: V 0840 0455; CRS in similar field

V 0840 0455 Curriculum Development

Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local level developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs. 3 s.

V 0845 0320 Business Communications

Designed as an enrichment to basic communications and to advance students in business education, well as allied areas, with an appreciation of an ability to handle oral and written communication coupled with a proficient skill in handling up-to-date devices for processing communications. 3 s.

V 0845 0321 Records Management

Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel. 3 s.

V 0845 0408 Principles of Office Management

A study of the most acceptable methods and practices of office administration. Topics to be studied include: organization and planning of office systems, leadership and human relations, controlling operations and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction. 3 s.

V 0845 0409 Word Processing Management

An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings. 3 s.

V 0845 0410 Seminar—Office Systems Administration

Current developments in office systems administration will be investigated by student research team in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills. 3 s.

Department of Health Professions

Professors: Hoitsma (Chairman), Redd

Associate Professors: Blanche, Paskert, Shahrokh, Whitmore

Assistant Professors: Davidson, Ficke, Wiig

Instructor: Kaelin

The Department of Health Professions, a member of the Panzer School Council, offers two basic undergraduate curricula: health education and allied health services.

The Bachelor of Arts degree candidates in health education follow one of two options: preparation for teaching health education in schools through a professional sequence of education offerings; and preparation for community health service positions through a selection of specialization courses.

The Bachelor of Science degree in allied health services is designed for allied health specialists who have completed one or two years of post-secondary professional training in a two-year college or in other academic settings. It provides opportunities for the development of collateral competencies in management, supervision, and teaching at the secondary as well as the post-secondary levels.

The programs are broadly based to prepare students for emerging opportunities in selected aspects of the health field. The curricula are carefully designed to develop understanding and skills necessary in dealing with contemporary and future health concerns, including those pertaining to the functions of health education specialists, and allied health practitioners seeking managerial supervisory, or health services positions. Courses in the specialization areas are complemented by broad general education requirements and selected collateral offerings; supervised field study is provided in school and community health programs.

The objectives of the department are:

1. to provide students with a broad selection of educational opportunities in the health professions field;
2. to prepare health educators for positions in schools and communities;
3. to prepare allied health services personnel for managerial, supervisory, and educational positions;
4. to provide programs for students planning advanced study in selected areas of the health professions field.

Health Education Major

		Semester Hours
Professional Sequence		*29
A. Pre-professional Semester—Teaching Major		
7 2001 0101	Human Growth and Development	3
7 2001 0200	Educational Psychology	3
B 0829 0410	Field Experience in Education	1
B 0837 0401	The Teaching of Health	3
B. Professional Semester—Health Education Concentration**		
B 0829 0400	Teacher, School and Society	3
B 0829 0401	Senior Field Experience	1
B 0829 0402	Seminar in Professional Education	1
B 0829 0411	Supervised Student Teaching	8
C. Professional Sequence—Community Health Services Concentration**		
W 0837 0245	Observation of Health Agencies	2
W 0837 0350	Field Study in Health	6
W 0837 0460	Systems of Health Services Delivery	3
	Social and Behavioral Sciences (in addition to previous requirements)	6
	Mathematics and Sciences (in addition to previous requirements)	6
Specialization		REQUIRED TOTAL
W 0837 0101	Health for Personal Living	3
W 0836 0207	Introduction to Safety	3

W 0837 0232	Emergency Health Care
W 0837 0210	Consumer Health
W 0837 0220	Mental Health
W 0837 0240	Foundations of Environmental Health
W 0837 0290	Human Sexuality
W 0837 0300	Current Problems in Health
W 0837 0305	Communicable Diseases
W 0837 0310	Chronic and Degenerative Diseases
W 0837 0313	The Drug Abuse Problem
W 0837 0315	Community Health
X 1301 0182	Nutrition
Q 0401 0250	Microbiology
W 0837 0404	Tests and Measurements in Health Education
W 0837 0411	The School Health Problem
Collateral Requirements—	(Meets general education requirements)
Q 0401 0100	Biological Sciences
Q 0401 0240,	Q 0401 0241 Mammalian Anatomy and Physiology I, II
R 1905 0107,	R 1905 0108 College Chemistry I, II
K 1501 0105,	K 1501 0106 Freshman Composition and Introduction to Literature
	Social and Behavioral Sciences
	Speech

III. Electives

*Include 6 s.h. state-mandated reading requirement

**Select either concentration (B or C)

Allied Health Major

The Bachelor of Science degree in allied health services constitutes an upper division program designed to provide continuing educational opportunities for credentialed allied health practitioners who have completed post-secondary professional education in two-year colleges or in other academically-accredited settings. The program has been planned cooperatively with five county colleges and the New Jersey College of Medicine and Dentistry, and is attempting to serve a wide range of allied health specialists through courses of study individualized to meet the needs and objectives of each student. The program provides for the development of leadership competencies in teaching, management and supervision, through the offerings of Montclair State College and through select coursework available at cooperating institutions.

General Summary of Allied Health Services Degree Requirements

Collateral Requirements

Semester Hours

Applied as Social Behavioral science credits

2204 0101 Principles of Economics-Macro

2204 0102 Principles of Economics-Micro

Specialization Requirements

A. Technical Specialty in Allied Health**

** Must be completed at academically accredited institution prior to transfer to Montclair State College

B. Major Core Requirements

1. 0837 0315, Community Health

2. 0837 0455, Core Concepts in the Delivery of Health Care

3. 0837 0460, Systems of Health Services Delivery

or

0837 0457, Professional Issues in Allied Health

C. Management and Supervisory Requirements

1. 0501 0231, The Management Process

2. 0501 0315, Organizational Behavior

Prerequisite: 0501 0231 and 3 s.h. of anthropology, psychology or sociology	
3. 0501 0316, Human Resource Management	3
or	
0501 0431, Middle and First Line Management	3
Prerequisite: 0501 0231, 0502 0202	
4. 0502 0201, Fundamentals of Accounting I	3
5. 1701 0109, Statistics	3
6. 1701 0260, Introduction to Computer Applications I	3
(May not be taken by students who have received credit for 1701 0283 or 1701 0461).	
or	
0838 0434, Introduction to Business Data Processing	3
or	
0502 0407, Accounting Systems and Data Processing	3
Prerequisite: 0502 0202	
2. Departmental Electives	14
Selected from:	
1. 0836 0207, Introduction to Safety	3
2. 0837 0101, Health for Personal Living	3
3. 0837 0210, Consumer Health	3
4. 0837 0220, Mental Health	3
5. 0837 0232, Emergency Health Care	2
6. 0837 0240, Foundations of Environmental Health	3
7. 0837 0290, Human Sexuality	3
8. 0837 0305, Communicable Diseases	3
9. 0837 0310, Chronic-Degenerative Diseases	3
10. 0837 0313, The Drug Abuse Problem	3
11. 0837 0445, Perspectives on Death	3
Electives	11

Health and Physical Education Major

The Department of Health Professions offers a health education component within a health and physical education major program provided in conjunction with the Department of Physical Education. satisfactory completion of studies in this program leads to eligibility for a single New Jersey teaching certificate in health and physical education.

The health education component in this program is as follows:

Requirements	Semester Hours
W 0837 0101 Health for Personal Living	3
W 0837 0290 Human Sexuality	3
W 0837 0210 Consumer Health	3
W 0830 0220 Mental Health*	3
W 0837 0240 Fundamentals of Environmental Health	3
W 0837 0305 Communicable Diseases	3
W 0837 0310 Chronic-Degenerative Diseases	3
W 0837 0315 Community Health	3
W 0837 0411 The School Health Program	3
W 0837 0313 The Drug Abuse Problem	3
W 0837 0401 The Teaching of Health	3
Tests and Measurements in Health Education	3
Recommended in addition to	
W 0837 0355 Measurements and Evaluations in Physical Education	2

Clerical Courses

R 1905 0107, 0108 College Chemistry I, II	3 ea.
Q 0401 0240, 0241 Mammalian Anatomy and Physiology I, II	3 ea.

Physical Education requirements in this program are described under the Department of Physical Education offerings in another section of this catalog.

Students who desire separate certificates (one in health education and another in physical education) must complete the approved college curriculum for both of these majors.

Health Professions Course Descriptions

W 0836 0207 Introduction to Safety

Broad treatment of major safety areas, including transportation, public safety, industrial and home safety; accident causation and preventive measures currently employed; agencies and organizations involved in all facets of the safety movement. 3 s.i.

W 0837 0100 Healthful Living

The achievement and maintenance of optimum personal health. Mental health, nutrition and weight control, drug use and abuse, communicable diseases, chronic and degenerative diseases, sexual adjustment, consumer health and environmental health. 2 s.

W 0837 0101 Health for Personal Living

Nature and causes of human health problems; preventive measures the individual can employ. Mental health, nutrition and weight control, physical fitness, communicable diseases, chronic and degenerative diseases, drug use and abuse, marriage and family life, and consumer health. 3 s.

W 0837 0210 Consumer Health

Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behaviors. 3 s.

W 0837 0220 Mental Health

Provides for a study of human personality and the conditions conducive to its healthy development. Considerations are also given to the dynamics of adjustment, causes of maladjustment, and the nature of various emotional disorders and illnesses and their treatment. 3 s.

Prerequisites: A basic course in sociology, psychology, biology or anthropology

W 0837 0232 Emergency Health Care

Considers the nature, causes and treatment of emergency health problems (accident, heart failure, a heart attack, drug overdose, etc.). Surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures. 2 s.

W 0837 0240 Foundations of Environmental Health

A multidisciplinary exploration of man's relation to his environment. The influence of man's action on the physical environment, and the effects of alteration of environment on man's mental and physical well-being. Environmental awareness underscored by contrasting rural and urban-industrial life experiences. 3

W 0837 0245 Observation of Health Agencies

An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. For majors and non-majors. 2-3

Prerequisites: W 0837 0101; must obtain written approval of instructor prior to registration

W 0837 0290 Human Sexuality

Considers the biological, psychological, sociological, and philosophical aspects of human sexuality. human reproductive system, sexual response, contraception, psycho-sexual development, homosexuality, sex and drugs, cross-cultural sexual behavior, and prostitution. 3

Prerequisite: A basic course in sociology, psychology, biology or anthropology.

W 0837 0300 Current Problems in Health

Seminar-type course providing intensive study of selected contemporary health problems. Identification and interpretation of current health issues, from the standpoint of recent scientific and social developments. 3

W 0837 0301 Addictions and Dependencies

Nature and causes of drug dependencies, including study of substances capable of producing dependency. Preventive measures and various approaches to treatment and rehabilitation of drug-dependent persons. 2

W 0837 0305 Communicable Diseases

A basic course in communicable diseases. Includes study of historical background, societal implications, as well as consideration of the epidemiology of specific communicable diseases. 3 s.h.

W 0837 0310 Chronic & Degenerative Disease

The problems of chronic and degenerative diseases as a cause of death and disability. The nature and causes of various chronic and degenerative diseases along with the measures for their prevention and treatment. 3 s.h.

W 0837 0313 The Drug Abuse Problem

Physical, psychological, pharmacological, societal, legal & educational aspects of drug abuse. Rehabilitative and preventive measures against a background of constantly changing conditions. 3 s.h.

W 0837 0315 Community Health

A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems. Prerequisite: CRS in similar field 3 s.h.

W 0837 0347 Health Issues Forum

A-depth study of a health issue of current public or professional concern, including analysis of recent literature and presentations by authoritative spokesmen for significant points of view. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the department, the course may be taken more than once. 1-3 s.h. Prerequisite: junior or senior standing, specific prerequisites may be required for certain forum topics

W 0837 0350 Field Study in Health

Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency. 2-6 s.h.

Prerequisites: must obtain written approval of instructor prior to registration, CRS in similar field

W 0837 0367 Expanded Duties—Dental Auxil

An expanded duties course serves as an overview of the many delegable tasks within dental practice and it will provide instruction in those skills needed for participation in progressive dental care delivery systems. The course is geared to the needs of dental auxiliary educators as they teach expanded duties to student dental assistants and dental hygienists. One hour lecture, three hours lab. 2 s.h. each Prerequisite: dental hygiene registration or dental assisting certification

W 0837 0401 The Teaching of Health

For students planning to teach health education. The development and organization of major health topics; current teaching methods and techniques, and their relation to the contemporary school health instruction program. 3 s.h.

Prerequisite: CRS in similar field

W 0837 0404 Tests and Measurements in Health Education

Statistical procedures and analysis of existing evaluation instruments. Measurements in cognitive, affective and psychomotor domains. 3 s.h.

W 0837 0411 The School Health Program

A total school health program; school health services; a healthful school environment and the comprehensive school health education program. 3 s.h.

W 0837 0441 Allied Health Care Services

Comprehensive survey of health-related occupations, with emphasis on job specifications, educational requirements, and educational and career lattices. Intended primarily for health careers educators, vocational counselors, and health educators. 3 s.h.

Prerequisites: 12 semester hours in health education, applied health science or guidance and counseling, with permission of the instructor.

W 0837 0445 Perspectives on Death

Examination of the personal and social meanings of death. Formulation of realistic plans for living.

through education about death.

Prerequisite: W 0837 0200 or 7 2001 or instructor's permission

3 s.

W 0837 0455 Core Concepts in the Delivery of Health Care

Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the role of allied health personnel.

3 s

Prerequisites: six months of occupational experience in an allied health specialty; CRS in similar field

W 0837 0456 Clinical Internship in Allied Health

Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives.

1-4 s

Prerequisites: Professional licensure in an applied health specialty and W 0837 0441 (Applied Health Care Services); CRS in similar field

W 0837 0458 Curriculum and Teaching in Health Occupations Education

Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional programs. First semester: classroom teaching and special instructional methods. Second semester: clinical instruction, curriculum development and coordination of health occupations programs.

3

Prerequisites: 7 2001 0200 or W 0837 0451 or W 0837 0452

W 0837 0460 Systems of Health Services Delivery

The organization, administration and functions of health services in the United States and other nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.

3

Prerequisite: CRS in similar field or instructor's permission

Department of Home Economics

Professor: Hall (Chairman)

Associate Professors: Guthrie, Litwornia, Morris, Todd

Assistant Professors: Bernstein, Doremus, Frasco, Flint, Hudson, Kelley, Mukherjee, Norris, Silver, Taneja-Jaisinghami

Instructors: Alcaro, Brause, Tabor

Undergraduate courses in home economics are designed for students interested in:

1. entry-level positions in an existing or newly-emerging home economics profession;
2. a liberal arts education preparatory to future specialization and/or home and community living;
3. transferring from other institutions and/or departments and majoring in home economics;
4. home economics courses to enrich the academic background and perhaps to fulfill general education requirements;
5. background for advanced work in some area of the discipline.

The home economics department believes that off-campus studies and work experience in agencies and organizations are a vital supplement to on-campus studies. Opportunities for off-campus experiences are available through required and elective courses; all home economics students are encouraged to choose at least one.

The department cooperates with the Merrill-Palmer Institute in Detroit, Michigan. Selected home economics majors spend their junior year at the Institute, receiving transfer credit for intensive study and experience in family relations and child development. Application forms are available in the home economics department.

Home Economics Major

Programs of study can be planned within five curricula which lead to a variety of professional goals. Students should consult with their departmental advisors.

Requirements

		Semester Hours
X 1301 0100	Professional Orientation	2
X 1304 0270	Individual Management: Theories and Strategies	3
X 1301 0304	Introduction to Research	3
X 1301 0400	Senior Seminar	1

Concentration in Consumer Affairs

Lois Guthrie, Coordinator

This program prepares students for positions as consumer advocates and educators, and in liaison between business and the consumer, research and product development, and government and business. The courses are planned to develop a consumer orientation to specialization areas such as foods, housing, child development, and textile products.

Requirements

Semester Hours

X 1305 0140	The Family: An Interdisciplinary Approach	3
X 1304 0271	Family Management	3
X 1304 0335	Consumers and the Market	3
X 1301 0409	Professional Practicum	8-12
X 1304 0435	Consumer Action	3
X 1305 0445	The Inner City Family	3

Consumer Affairs Emphasis 12 s.h. in one area: Foods & Nutrition or
Clothing/Textiles/Housing/Interior Design or Consumer Services

12

Collateral Requirements

3 2204 0101	Principles of Economics: Macro	3
8 2208	Principles of Sociology Course	3
6 2207 0302	Public Opinion and Pressure Groups	3
1 1506 0442	Argumentation and Debate	3
7 2001 0101	General Psychology I or other	3

lectives including 18 s.h. in Communications/Education/

Business or Government/Public Administration

38-47

Concentration in Family and Child Studies

Barren Todd, Coordinator

This program is designed for those interested in exploring family and child development, enriching family life or guiding and teaching young children. Students electing the teaching sequence can fulfill New Jersey certification requirements for Nursery and Kindergarten teaching.

Requirements

Semester Hours

X 1303 0122	Clothing & Culture or	
X 1303 0221	Fabrics for the Consumer	3
X 1305 0140	The Family: An Interdisciplinary Approach	3
X 1301 0141	Interpersonal Relations	3
X 1306 0153	Food and Man or	
X 1306 0255	Meal Management	3
X 1306 0182	Nutrition	3
X 1305 0214	Child Development I	3
X 1304 0231	Family Economics or	
X 1304 0331	Money Management or	
X 1304 0335	Consumers and the Market or	
X 1304 0435	Consumer Action	3

X 1304 0271*	Family Management or
X 1305 0418	Parent Education or
X 1305 0414	Organization and Management of Child Care Centers
X 1305 0314	Child Development II
X 1305 0315	Field Experiences in Family and Child Services
X 1305 0342	Family Sociology
X 1305 0445	The Inner City Family
X 1301 0448	Family Counseling

*Not required for students seeking Nursery and Kindergarten certification

Collateral Requirements

7 2001 0101	General Psychology I
7 2001 0201	Child Psychology
Q 0401 0242	Human Biology
	Anthropology or Sociology

Electives

Concentration in Foods and Nutrition

Barbara Litwornia, Coordinator

This program provides students with a specialized background for food and nutrition fields business, institutions, and community agencies. Students can meet the academic requirements of the American Dietetic Association for admission to approved Dietetic internships, if electives are carefully selected.

Requirements

Semester Hours

X 1305 0140	The Family: An Interdisciplinary Approach
X 1306 0150	Principles of Food Preparation
X 1306 0153	Food and Man
X 1306 0182	Nutrition
X 1306 0255	Meal Management
X 1304 0271	Family Management
X 1305 0445	The Inner City Family
	Electives in Foods and Nutrition

Collateral Requirements

R 1905 0107	College Chemistry I
R 1905 0130	Organic Chemistry
	Electives

Concentration in Food Service Management

Barbara Litwornia, Coordinator

This concentration prepares students for management positions in many diversified areas of food service by producing a program strong in foods, food related sciences, general and specialized business management skills, and culminating in a work practicum. This solid and broad background permits students to enter food service in hospitals, schools, colleges or other institutions, restaurants, hotels, motels, airlines, or to continue studies in an advanced degree program.

Requirements

Semester Hours

Home Economics	
X 1306 0150	Principles of Food Preparation
X 1306 0153	Food and Man
X 1306 0182	Nutrition
X 1307 0252	Organization and Management of Food Service Systems
X 1307 0253	Quantity Food Purchasing and Production
X 1307 0254	Food Service Equipment
X 1307 0353	Advanced Food Production
X 1301 0409	Professional Practicum

Administrative Sciences		
U 0502 0201	Fundamentals of Accounting I	3
U 0502 0202	Fundamentals of Accounting II	3
U 0501 0231	The Management Process	3
U 0509 0241	The Marketing Process	3
U 0509 0261	Legal Environment of Business I	3
U 0501 0316	Human Resource Management or	
7 2001 0270	Industrial and Organizational Psychology	3
U 0502 0407	Accounting Systems and Data Processing	3
Science		
R 1907 0107	College Chemistry I	3
R 1907 0130	Organic Chemistry	4
Q 0401 0242	Human Biology	3
Q 0401 0250	Applied Microbiology	3

Collateral Requirements

3 2204 0101	Principles of Economics: Macro	3
3 2204 0102	Principles of Economics: Micro	3
7 2201 0100	General Psychology I	3

Electives 18-22

Concentration in Home Economics Education

Joan Bernstein, Coordinator

This curriculum prepares students to be educators in diversified learning environments, such as public schools, adult programs, cooperative extension and business. Graduates receive New Jersey certification to teach Home Economics K-12 and are provided with a foundation for advanced study in specialized areas of home economics.

Requirements

		Semester Hours
X 1303 0120	Clothing Construction	3
X 1303 0122	Clothing and Culture	3
X 1305 0140	The Family: An Interdisciplinary Approach or	
X 1305 0248	Family Relations	3
X 1305 0141	Interpersonal Relations	3
X 1306 0150	Principles of Food Preparation	3
X 1302 0160	Equipment in the Home	3
X 1306 0182	Nutrition	3
X 1308 0201	Introduction to Home Economics Education	3
X 1305 0214	Child Development I	3
X 1306 0255	Meal Management	3
X 1302 0260	Human Shelter	3
X 1304 0271	Family Management	3
X 1303 0298	Textiles	3
X 1304 0435	Consumer Action	3
	Home Economics Elective	3

Collateral Requirements

7 2001 0101	General Psychology I	3
	Economics	3
	Anthropology or Sociology	3
Electives		0

Transfer Students

Careful planning enables a student to transfer to the Department of Home Economics at Montclair State College without loss of credit. Potential transfer students should examine carefully the list of required courses in the selected major. Any student who plans to transfer for the junior year should write for suggestions or preferably call the home economics department for a conference before the start of the sophomore year.

Home Economics Course Descriptions

X 1301 0100 Professional Orientation

Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings, for exposure to the breadth of professional opportunities.

2 s.

X 1301 0141 Interpersonal Relations

Relevant and up-to-date information about significant human relationships throughout the life cycle. Traditional and contemporary forms of dating, courtship, sexual behavior and marriage.

3 s.

X 1301 0205 Women in Contemporary Society

Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.

3 s.

X 1301 0300 Field Trip Experiences in Home Economics

An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers.

1 s.

X 1301 0301 Volunteer in the Community

The role of the volunteer solving the socio-economic-civic-educational problems facing individuals and families; volunteer participation as an individual and in groups.

2-4 s.

X 1301 0304 Introduction to Research

Helps students become aware of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Opportunity for individual groups to plan and execute a small empirical inquiry.

3 s.

Prerequisite: work in field

Independent Study

Advanced areas of home economics not offered in the regular curriculum.

1-3 :

Prerequisite: junior or senior standing

X 1301 0345 Sex Roles in a Changing World

Sex role development and stereotypes that exist in our society and cross-culturally.

3

Prerequisites: X 1301 0141 or X 1305 0248 0248 or X 1305 0140

X 1301 0400 Senior Seminar

The role of professional home economists in meeting contemporary societal needs; problems of entry into the field.

2

Prerequisite: senior standing

X 1301 0401 Research Methods in Home Economics

This course provides students an alternative choice to the present research course, 304—Introduction to Research. Planned at a more advanced level, this will give students the opportunity to plan and execute individual research projects. Credit will not be granted for 1301 0304 and 1301 0401.

3

X 1301 0408 Workshop in Home Economics

Opportunity to study selected current problems in the field of home economics.

3

X 1301 0409 Professional Practicum

Opportunity to work as a trainee with a professional home economist in business, a community agency or an organization.

8-12

Prerequisite: senior standing

X 1301 0444 The Social Challenge of Aging

The change over the adult life span as it affects family interaction and resources in various subcultures; implications for social policy and institutions relative to an increasing aging population.

3

Prerequisite: CRS in Family Studies

X 1301 0448 Family Counseling

Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.

Prerequisite: CRS in Family Studies or Consumer Affairs

X 1302 0160 Equipment in the Home

Principles and resources involved in the selection, use and care of equipment in the home. 3 s.h.

X 1302 0260 Human Shelter

The housing needs of today's families from an economic, social and psychological premise. The organization of living space, selection and use of materials to meet the needs of the family throughout the life cycle. 3 s.h.

X 1302 0265 Interior Design

The selection, organization and evaluation of furnishing for the residential environment related to everyday life and individual needs. Design elements of line, form, light, color, texture and ornament in relation to interior space. 3 s.h.

X 1303 0120 Clothing Construction

Applying fundamentals of clothing construction while using commercial patterns. 3 s.h.

X 1303 0122 Clothing and Culture

Clothing selection in terms of cultural, social, psychological and economic influences; clothing choices related to individual needs; color, design, fabric and accessories. 3 s.h.

X 1303 0220 Textile & Clothing Industry

An in-depth study of factors which spur progress, affect supply and demand, and ultimately the consumer. The history, economic structure and patterns of production, distribution and marketing of textile and clothing industries. 3 s.h.

X 1303 0221 Fabrics for the Consumer

Consumer needs and interests in the textile area. Products of the soft goods industries; distinctions, uses and care of materials in apparel and household fabrics. 3 s.h.

X 1303 0226 Advanced Clothing Construction

A conceptual approach to problems in custom dressmaking. Projects develop a better understanding of fabric characteristics, selection of appropriate construction techniques and suitability of fashion to the individual. 3 s.h.

Prerequisite: X 1303 0120 or equivalent.

X 1303 0298 Textiles

Selection and buying of textiles for clothing and household purposes; fibers, fabrics and finishes. Consumer education and factors relating to durability, uses, care, cost and textile economics. 3 s.h.

X 1303 0320 Historical Analysis of Costume

The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Open to freshmen. 3 s.h.

X 1303 0322 Field Visits to Clothing and Textiles Firms

Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise. Permission of instructor required. 1 s.h.

X 1303 0323 Fabrics and Fashion

Fiber, yarn, construction and finish related to product potential and to satisfying consumer needs and purposes. Fashion materials including feather, fur and lace; textile goods such as floor coverings, household linens, and children's apparel. 3 s.h.

X 1303 0422 Draping

Design principles and fabric properties, figure types, and fashion interest; draping fabric on a three-dimensional body and form for interpretation of design. 3 s.h.

Prerequisite: X 1303 0120

X 1303 0424 Tailoring

The concepts, procedures and skills of custom tailoring; techniques of fine as well as speed processes; comparing and evaluating custom and factory-made garments. 3 s.h.

Prerequisite: X 1303 0120

X 1303 0426 Flat Pattern Design

Flat pattern design in developing original designs for apparel. A basic pattern is used to execute designs related to the use of fabric on a human form.

3

Prerequisite: X 1303 0120

X 1304 0231 Family Economics

The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns.

3

X 1304 0270 Individual Management: Theories and Strategies

Designed to provide the opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem-solving, planning, and expediting are emphasized.

3

X 1304 0331 Money Management

The role and meaning of money in individual and family living; income as a means of acquiring a style of life; the effective control of income in spending, saving, credit purchases and providing for future needs. Not open to freshmen.

3

X 1304 0335 Consumers and the Market

The consumer perspective of the marketplace; advertising, selling practices, promotion, warranties, etc., as they affect the acquisition of goods and services. Not open to freshmen.

3

X 1304 0370 Individual and Family Problem-Solving

Dealing with daily living through increased competence in decision-making and problem-solving in a variety of lifestyles. Not open to freshmen.

3

X 1304 0435 Consumer Action

The marketplace as a social, psychological and economic institution serving families; trends and current issues which affect the quality of goods and services.

3

Prerequisites: 3 2204 0101 or 3 2204 0102

X 1304 0470 Family Management

Designed to provide the opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision-making, use of human and nonhuman resources and factors influencing household management are investigated.

3

Prerequisite: X 1304 0270

X 1304 0471 Time Management

Time as a dimension of life related to values in social systems and subcultures; changing demands and pressures on time; an analysis of personal time use.

3

Prerequisites: X 1304 270 or X 1304 0370

X 1305 0140 The Family—An Interdisciplinary Approach

Basic insights and concepts from the social sciences used to study the history and structure of the family; its place as a basic but changing institution in modern America.

3

X 1305 0214 Child Development I

The preschool child (2-5 years): The major challenges confronting him as he masters the tasks of socialization. Supervised observation and participation with groups of preschool children.

3

Prerequisite: 7 2001 0101

X 1305 0215 Infant Development

The infant as a developing individual within the family. Theory and research in the area of human infancy; cognitive and emotional growth during the first two years of life.

3

X 1305 0216 Techniques for the Study of Child Personality

Skills and tools to help the teacher become more aware of the needs, motivations, competencies and values of young children. Opportunities to observe and record children's activities.

3

Prerequisite: X 1305 0214

X 1305 0248 Family Relations

The family life cycle; typical issues, emotional patterns and developmental tasks of late adolescence; courtship, adjustment in marriage, pregnancy, child-rearing; later stages of parenthood and old age. Students' own relationships, values and sex roles discussed and compared with facts and trends of American society. 3 s.h.

X 1305 0314 Child Development II

The psychological needs of the child; practices of care and guidelines of young children. Feelings, attitudes and values in the management of specific behavioral patterns. 3 s.h.

Prerequisite: X 1305 0214

X 1305 0315 Field Experiences in Family and Child Services

Planned supervised experiences in selected agencies offering services for families and children. 3 s.h.

Prerequisite: CRS in similar field

X 1305 0317 Creative Experiences in Early Childhood

Direct experiences in the areas of art, music and science for the pre-schooler. 3 s.h.

Prerequisite: X 1305 0214 or senior standing

X 1305 0318 Program Planning in Early Childhood Education

Principles of curriculum development for planning preschool programs. To be taken semester prior to student teaching. 3 s.h.

Prerequisites: X 1305 0214, B 0829 0410

X 1305 0319 Language and Literature for Young Children

The qualities of children's expression through language, books, stories and poems; criteria for evaluating material for the preschool program. Not open to freshmen. 3 s.h.

X 1305 0342 Family Sociology

Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society; the impact of rapid social change on the American family. Not open to freshmen. 3 s.h.

X 1305 0414 Organization and Management of Child Care Centers

The basic principles of supervision and administration as applied to developing a sound program in a modern preschool program. The learning process as applied to the professional development of staff; the organization and administration of individual classrooms as well as the total school program and the relationship of the school to community services and agencies. 3 s.h.

Prerequisites: X 1305 0214, junior/senior standing

X 1305 0415 Child in the Community

The attitudes, mores and values of family and neighborhood life as determinants of the child's adaptation to school; growing up in families of deviant patterns; specialists and agencies in the community. 3 s.h.

Prerequisites: X 1305 0214, junior/senior standing

X 1305 0418 Parent Education

Establishing a positive team approach between the parent and teacher; parent-teacher interaction; how the teacher interprets parental anxieties, and conducts individual conferences and group meetings. 3 s.h.

Prerequisites: 1309 0214, CRS in similar field

3 s.h.

X 1305 0419 Special Studies in Family and Child Services

Exploring special concerns in the area of family life and child development. 3 s.h.

Prerequisite: CRS in similar field

3 s.h.

X 1305 0445 The Inner City Family

Sub-cultures residing in large cities; the impact of urbanization, ethnicity, social and economic institutions problems which families encounter. Community contact is part of the course. 3 s.h.

Prerequisite: junior/senior standing

3 s.h.

X 1306 0150 Principles of Food Preparation

Food selection, purchasing and preparation; principles involved in preparation of standard products. 3 s.h.

3 s.h.

X 1306 0153 Food and Man

World food patterns; diverse ways in which man provides for and attaches meaning to his food nutritional problems in the United States and the world; nutritional significance of a changing food supply.

3 s.h

X 1306 0182 Nutrition

The nutrients in food, their functions in the human body, and diet requirements for people in various age groups.

3 s.l

X 1306 0255 Meal Management

Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.

3 s.l

X 1306 0282 Community Nutrition

The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.

Prerequisite: X 1306 0182

3 s.l

X 1306 0357 Experimental Foods

Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.

3 s.

Prerequisites: R 1905 0107, R 1905 0130, X 1306 0150

X 1306 0384 Nutrition in Developing Countries

Nutritional problems; factors which contribute to malnutrition; effect of under-nutrition and malnutrition; methods of assessing nutrition status of a population and application of measures for improvement.

3 s.

Prerequisite: X 1306 0182

X 1306 0389 Advanced Nutrition

The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of men; evaluation and interpretation of research findings.

3 s.

Prerequisites: X 1306 0182, Q 0401 0243 and R 1905 0270

X 1306 0456 Research in Foods

Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.

3 s.

Prerequisite: X 1036 0357

X 1306 0488 Diet Therapy

The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.

4 s

Prerequisites: Q 0401 0250, Q 0401 0243, X 1306 0389, R 1905 0270

X 1306 0489 Internship in Food & Nutrition

A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.

3 s

Prerequisites: X 1306 0282, X 1307 0253, X 1308 0302, X 1306 0389, X 1306 0488

X 1301 0252 Organization and Management of Food Service Systems

Principles of management; organizational structure, policy and decision-making; the menu management, budgeting and cost control; sanitation and safety; personnel policies and management.

3 s

Prerequisite: U 0502 0200

X 1307 0253 Quantity Food Purchasing and Production

Determining needs, purchasing, storing, preparing and serving food in large volume.

3 s

Prerequisite: X 1307 0252, X 1306 0255, X 1307 0254

X 1307 0254 Food Service Equipment

Selection of equipment based on needs of the food service system. Purchasing procedures.

3 s

Prerequisites: X 1307 0252, X 1307 0253

X 1307 0353 Specialized Food Production

Opportunity to study selected problems in food production at various types of food service operations. Menu planning for special events; a study of terminology and techniques utilized in specialized areas of food production.

3 s.h.

Prerequisite: X 1307 0253

X 1308 0201 Introduction to Home Economics Education

Curriculum design and methodology in all areas of home economics education. Field experience; visits to K-12, extension, businesses with home economics education programs followed by analysis.

Prerequisite: X 1301 0100

3 s.h.

X 1308 0302 Nutrition Education Techniques

Procedures and techniques for teaching nutrition to youth and adults; individual, group and mass methods.

3 s.h.

Prerequisite: X 1306 0182

X 1308 0306 Management in the Secondary School Curriculum

Identifying managerial competencies and integrating them into the home economics curriculum.

Prerequisite: X 1304 0470

2 s.h.

X 1308 0307 Vocational Education

Principles and practices of vocational education including history, development, organizations and objectives; observations in vocational education programs.

2 s.h.

X 1308 0309 Teaching of Home Economics

Curriculum development; materials and teaching strategies appropriate to home economics. To be taken the semester prior to student teaching. 0829 0410 Field Experience in Education must be taken concurrently.

3 s.h.

Prerequisite: B 0829 0410

X 1308 0402 Adult Education—Home Economics

For home economists interested in teaching adults in school, community and extension programs; understanding the adult learner and developing appropriate programs and teaching strategies. Observations in adult education programs.

3 s.h.

Prerequisite: X 1308 0309

X 1308 0403 Consumer Education Techniques

Curriculum development, teaching strategies, resources and materials related to teaching consumer education.

3 s.h.

Prerequisite: X 1304 0435

X 1308 0404 Evaluation in Home Economics

The philosophy, purpose and variety of techniques for gathering and weighing evidence; evaluating home economics programs and their objectives. Students may focus on local, state and federal programs and their special accountability processes.

3 s.h.

Prerequisite: X 1308 0309

X 1308 0405 Home Economics in the Middle School

Philosophy and organization of home economics in the middle school. Supervisory techniques and curriculum development examined as a basis for designing courses.

3 s.h.

Prerequisite: Classroom or student teaching experience; CRS in similar field

X 1308 0406 Occupational Education in Home Economics

Field experiences in programs where home economics skills are applied to wage earning. Curriculum development, roles of the home economist; occupational teacher-coordinator, and supervision of students enrolled in wage-earning programs.

3 s.h.

Prerequisite: X 1308 0309

X 1308 0410 Teaching Daily Living Skills to the Handicapped

Analysis of daily personal management problems and their application to the handicapped. Opportunity to explore community resources, examine and develop materials and teaching strategies appropriate for teaching daily living skills to the handicapped. Field experience included.

3 s.h.

Prerequisite: X 1304 0270, instructor's permission, junior standing.

Department of Industrial Education and Technology

Professor: Earl, Olsen (Chairman)

Associate Professors: Van Benschoten

Assistant Professors: Browning, Dorner, Goodall, Greenwald,
Nelsen, Rehorn, Schumm, Walencik

Instructors: Healy, Parsons.

The department offers a Bachelor of Science degree in Industrial Education and Technology (State of New Jersey certification K-12). The department also offers certification in Vocational-Technical Education and post-baccalaureate Industrial Arts certification.

Industrial Education is a comprehensive fifty-hour major, providing technical experience through exposure to all curriculum areas; students select two for depth study. The areas of specialization include design, drafting, graphic arts, woods, plastics, metals, electronics and power. Students are encouraged to gain industrial experience during their college years. Credit is given for industrial experiences in the summer.

Industrial Education and Technicology courses are identified by the department prefix 0990. The prefix 0839 indicates professional courses in the Industrial Education and Technology teacher education major.

Industrial Education and Technology Major

I. Professional Sequence

II. Requirements

	Semester Hours
Y 0990 0210 Design: Problem Solving	3
Y 0990 0220 Graphic Communication	3
Y 0990 0230 Graphic Arts	3
Y 0990 0240 Foundations of Industry-Woods	3
Y 0990 0250 Industrial Plastics	3
Y 0990 0260 Metalworking Practices	3
Y 0990 0270 Electricity Fundamentals	3
Y 0990 0280 Power Systems and Energy Sources	3
Y 0839 0301 Technology and Culture: Past, Present and Future	3
V 0839 0302 Curriculum and Teaching of Industrial Education	3

III. Industrial Education Electives (2 areas minimum)

IV. Electives

Vocational-Technical Teacher Education Program

This program offers courses and advisement for students wishing certification to teach vocational-technical subjects in secondary schools. Candidates must certify high school graduation or equivalency, experience in the trade, industrial occupation or profession to be taught, and approved training in the field. The program offers professional education, general background courses and supervised in-service teaching.

Industrial Education and Technology Course Descriptions

Y 0990 0101 Introduction to Industry, Education and Technology

A professional orientation and exposure to all professional aspects of industry, education and technology designed to give student insight into the breadth of opportunities within the field.

1 s.h.

Y 0990 0102 Communications Technology

The various aspects of communication will be explored with an emphasis upon the development of understanding some of the commonalities of the various media used for the transmission and storage of information.

2 s.h.

Y 0990 0104 Manufacturing Technology

Analysis of how materials are transformed into useful products. Emphasis will be placed on the manufacturing processes required to alter raw materials into consumer goods. 2 s.h.

Y 0990 0210 Design: Fundamentals and Problem Solving

Creativity, brainstorming, problem-solving and analysis-consideration application to practical problems in designing with materials. 3 s.h.

Y 0990 0220 Graphic Communication

All aspects of graphic communication are surveyed with particular emphasis on its role in the industrial and business world. 3 s.h.

Y 0990 0230 Graphic Arts

Major printing processes use of type, composition, proofing, imposition, platen press, screen process and basic lithography. 3 s.h.

Y 0990 0240 Foundations of Industry—Wood

An overview of the wood product industries with emphasis on the study of the lumber industry, standard hand tool and common machine operation, as well as basic finishing processes. 3 s.h.

Y 0990 0250 Industrial Plastics

Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety. 3 s.h.

Y 0990 0251 General Plastics and Consumer

A fundamental general education course offered for non-majors, only concerned with the selection, utilization, service and repair of selected groupings from the many plastic products available for consumer use. Stress is placed upon how products are made, how to maintain them, and how to repair them if necessary. 3 s.h.

Y 0990 0252 Plastic Crafts

An elementary course in the use of plastics as a craft media for recreational, avocational and vocational interests. 3 s.h.

Y 0990 0260 Metalworking Practices

An introductory study of concepts and processes involving metallic materials supplemented by related laboratory experiences. 3 s.h.

Y 0990 0270 Electricity Fundamentals

Basic concepts of electricity and their application in the world. 3 s.h.

Y 0990 0280 Energy Sources and Power Conversion Systems

A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience. 3 s.h.

Y 0990 0307 Technical Writing

Preparation of technical material for publication. Prior registration requested. 3 s.h.

Prerequisites: K 1505 0105 or equivalent

Y 0990 0311 Graphic Design in Print Media

All aspects of graphic arts design from initial concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type. 3 s.h.

Y 0990 0312 Commercial Illustration in Print Media

An exploration of the various illustrative techniques of graphic reproduction. Assignments will be given with an eye toward use in compilation of a professional portfolio. 3 s.h.

Y 0990 0321 Industrial Drafting

Concepts, principles, skills of contemporary industrial practices and processes. 3 s.h.

Prerequisite: Y 0990 0220 or permission of instructor

Y 0990 0322 Technical Illustration

Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and

publication illustration.	3 s.h.
Prerequisite: Y 0990 0220 or permission of instructor	
Y 0990 0331 Letter Press Reproduction	
Fundamentals of letterpress printing. Emphasis on historical development, layout, type styles, type cases, spacing, composition, proofing, lock-up, imposition, manual and automatic press operation	
Prerequisite: Y 0990 0130	3 s.h.
Y 0990 0332 Screen Process Reproduction	
Screen process printing and elementary line photography hand-cut films, photographic films and process.	3 s.h.
Y 0990 0333 Black & White Photography	
Photographic processes of continuous tone photography. Darkroom construction, chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs.	3 s.h.
Y 0990 0341 Machine Woodworking	
Shaping wood materials by portable and machine operations maintenance, jig and fixture design.	
Prerequisite: Y 0990 0240	3 s.h.
Y 0990 0342 Cabinet Construction	
All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets.	
Prerequisite: Y 0990 0341	3 s.h.
Y 0990 0343 Home Maintenance and Repair	
A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.	
	3 s.h.
Y 0990 0351 Plastics Molding and Processing	
Manipulative processes; injection, compression, transfer and rotational molding. Process procedure cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety.	
Prerequisite: Y 0990 0250	3 s.h.
Y 0990 0352 Plastics Forming and Processing	
Manipulative processes extrusion, blow molding and thermoforming.	
Prerequisite: Y 0990 0250	3 s.h.
Y 0990 0361 Machine Tool Technology	
Machine metalwork layout, machining and control laboratory activities.	
Prerequisite: Y 0990 0260, instructor's permission	3 s.h.
Y 0990 0363 Metals Casting Technology	
Contemporary industrial metal casting techniques. Laboratory activities.	
Prerequisite: Y 0990 0260, instructor's permission	3 s.h.
Y 0990 0365 Cold Metal Forming	
A study of industrial processes as related to sheet metal fabrication, wrought metals and metalsmithing	
Prerequisite: Y 0990 0260	3 s.h.
Y 0990 0371 Electronic Fundamentals	
Circuit conditions; analysis of electronic concepts, theoretically and experimentally.	
Prerequisite: Y 0990 0270, instructor's permission	3 s.h.
Y 0990 0372 Electron Tubes and Semi-Conduct	
Solid state devices and electron tubes. Laboratory activities to analyze circuit conditions.	
Prerequisite: Y 0990 0371, instructor's permission	3 s.h.
Y 0990 0373 Introduction to Logic Machine	
Computers and mentors will be studied from the orientation of their effect on industry and society and from the perspective of their construction and operation.	
	3 s.h.

Y 0990 0380 Basic Automotive Mechanics

Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems.

3 s.h.

Y 0990 0381 Automotive Engines and Power Train

Detailed engine operation, engine component design criteria and service procedures. The cooling system and lubrication system studied as accessory systems to the engine. Power train components such as transmissions, clutches, drive lines and differentials.

3 s.h.

Prerequisite: Y 0990 0280, instructor's permission

Y 0990 0383 Automotive Suspension Systems and Brakes

Maintenance and service of drum and disc brakes and suspension systems. Study of various suspension systems, wheel balancing techniques systems and automotive air conditioning.

3 s.h.

Prerequisite: Y 0990 0280, instructor's permission

Y 0990 0385 Motorcycle Technology

Areas of study will include selection, operating and maintaining a motorcycle. Some specific lessons will include adjusting chains, tune up, solving electrical problems and engine rebuilding.

3 s.h.

Y 0990 0399 Recreation Crafts

Crafts in recreation will be studied in relation to program development, materials, supplies and equipment. Craft experiences will include: wood, metal, jewelry, plastic, leather, and carving. Not a major elective.

3 s.h.

Y 0990 0400 Power Tool Maintenance

A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands-on activity. Emphasis will be given to the development of preventative maintenance systems.

Prerequisite: Completion of required major courses or permission of instructor

3 s.h.

Y 0990 0405 Historical Perspectives of American Industries—Field Study

A study of selected clusters of industry with an emphasis on the historical development of technology. The course is intended to contribute to the understanding of our technical society and to appeal both to majors and non-majors. The program will consist primarily of visitations to sites representative of past and contemporary American industries.

3 s.h.

Y 0990 0406 Independent Study in Industry

Individual study problem with faculty guidance and sponsorship. Application required. Can be repeated three times.

1-3 s.h.

Prerequisite: permission of the department

Y 0990 0408 Field Studies of Industry

Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.

2 s.h.

Y 0990 0409 Cooperative Industrial Work Experience

Study of the industrial world through the skills, attitudes and knowledge of working. Available summers only, by prior registration. Can be repeated three times if experience is different or in depth.

Open to all college students.

2 s.h.

Prerequisite: permission of department

Y 0990 0411 Industrial Design

Designers' approach to design products applicable to mass production techniques.

3 s.h.

Prerequisite: Y 0990 0210

Y 0990 0415 Workshop/Seminar in Industrial Education and Technology

Opportunity is afforded students to study selected current issues, concerns, and/or problems in the various fields of industry, education and technology.

1-3 s.h.

Y 0990 0422 Engineering Graphics

The fundamentals of descriptive geometry are explored in conjunction with orthographic projection as

a system of identifying three-dimensional space data for the graphical solution of applied engineering problems. 3 s.h.

Y 0990 0423 Architectural Design

Basic aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, waste and utility systems. 3 s.h.

Y 0990 0424 Energy Conservation Resident

This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient houses, heating and cooling systems and retrofitting older homes. 3 s.h.

Y 0990 0431 Offset Lithography

Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork. 3 s.h.

Prerequisite: Y 0990 0230

Y 0990 0432 Advanced Offset Lithography

Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densimetric control. 3 s.h.

Prerequisite: Y 0990 0431

Y 0990 0433 Color Photography

Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densimetric control. 3 s.h.

Prerequisite: Y 0990 0333

Y 0990 0434 Color Separation

Color separation in graphic reproduction. Light, color films sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densimetric measurements, screens, screen angles and press operation. 3 s.h.

Prerequisite: Y 0990 0433

Y 0990 0441 Wood Technology

Origins, developments and advances in woods and properties, manufacturing processes and occupational information. 3 s.h.

Prerequisite: Y 0990 0240

Y 0990 0442 Residential Construction

Residential construction materials and processes. 3 s.h.

Prerequisite: Y 0990 0342

Y 0990 0451 Plastics Processing Technology

Advanced technology in injection, compression, transfer and epoxy molding, extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application. 3 s.h.

Prerequisite: Y 0990 0250, Y 0990 0351 or Y 0990 0352

Y 0990 0452 Plastics Mold and Form Design, Development and Construction

An advanced course in plastics centered on product design and production with great emphasis placed upon the design, development and construction of molds, forms, jigs and fixtures. 3 s.h.

Prerequisite: Y 0990 0250, Y 0990 0260, Y 0990 0240

Y 0990 0453 Plastics A Directed Study

An advanced course in the study of plastics centered on research and development with emphasis placed upon experimentation and exploration. 3 s.h.

Prerequisite: Y 0990 0250 or instructor's permission

Y 0990 0461 Manufacturing and Production Technology

Mass production techniques. Market analysis, manufacturing and production control. 3 s.h.

Y 0990 0462 Metals Technology Directed Studies

An advanced course in the study of metals concentrating on research and development emphasizing experimentation. The student will be given an opportunity to explore areas of metalworking of his/her own choosing with the instructor's guidance. Contemporary metalworking processes will also be discussed.

3 s.h.

Prerequisite: Y 0990 0260

Y 0990 0466 Welding Technology I

Working knowledge of arc and gas welding. Provides New Jersey welding certificate upon successful competition.

3 s.h.

Prerequisite: Pre-registration with instructor

Y 0990 0467 Advanced Welding Technology

Advanced study of concepts and processes including mig and tig welding, pipe welding, sheet metal welding, special welding processes and techniques, maintenance of equipment, inspecting and testing welds, and welders' qualifications. New Jersey state welding certification required.

3 s.h.

Prerequisite: preregistration with instructor

Y 0990 0471 Electronic Circuit Application

The effect of characteristic change on basic electrical circuits.

3 s.h.

Prerequisite: Y 0990 0372

Y 0990 0472 Industrial Electronic Circuits

Complex industrial and commercial circuit application through theoretical analysis and laboratory experimentation.

Prerequisite: Y 0990 0372 or instructor's permission.

3 s.h.

Y 0990 0482 Fluid Power

Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently used components and circuitry.

3 s.h.

Prerequisite: Y 0990 0280 or instructor's permission

Y 0990 0483 Fluidics

Fluidic devices and systems. Computation, logic and control.

3 s.h.

Prerequisite: Y 0990 0280

Y 0990 0484 Alternative Energy Conversion Systems

Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy, photo-voltaic conversion systems, wind energy, nuclear fission and fusion. Geothermal and hydroelectric energy conversion.

3 s.h.

Prerequisite: Y 0990 0280 or instructor's permission

Y 0990 0485 Wind Energy Conversion Systems

Theoretical and practical applications of electrical and mechanical energy systems derived from wind generating equipment and accessories. Wind machines will be examined from both the historical and contemporary perspective with respect to utilization and design characteristics of horizontal and vertical axis wind generators.

3 s.h.

Y 0990 0490 Jewelry and Lapidary

Jewelry and Lapidary processes, design and materials.

3 s.h.

Y 0990 0493 Directed Study in Jewelry

An in-depth study of one of four areas (wrought metal, enameling, casting, lapidary) to be chosen at time of registration. The course may be taken twice for a total of six credits.

3 s.h.

Prerequisite: Y 0990 0490 or instructor's permission

Y 0990 0495 Industrial Education for Elementary Grade

Developing activities and methods for including industrial education experiences designed to provide an integrative approach to elementary education.

3 s.h.

Y 0990 0496 American Heritage Skills

Home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning,

working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas. 3 s.h.

Y 0990 0497 Historical Restoration

A field experience in the restoration, moving and/or construction of historically significant structures. Students will participate in all phases of the restoration undertaken. Historic significance, architectural style and design, construction methods and materials are studied. 1-9 s.h.

Prerequisite: preregistration with instructor required

Y 0990 0498 National/International Work Study in Technology

An international field experience in technology. Students will participate in a specific construction or technical assistance project with a national or international agency or group. 1-9 s.h.

Prerequisite: preregistration with instructor required

Y 0991 0405 Cooperative Education in Industrial Education and Technology

The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract. 8 s.h.

Y 0991 0409 Internship in Industrial Education and Technology

The internship offers the student an opportunity to work as a trainee with professionals in industry, organizations and/or agencies. 8 s.h.

Prerequisite: majors only

Y 0998 0401 Principles and Philosophy of Vocational—Technical Education

This course presents a brief history of the social, economic, and technical forces which stimulated the development of vocational-technical education. The philosophy upon which the vocational-technical program is built will be extensively examined. The principles and practices of the areas and types of vocational technical education that function are studied. Organization and function of the state and federal division of vocational education and the significant trends and developments are an important part of the course. 3 s.h.

Y 0998 0402 Curriculum Construction in Vocational-Technical Education

Practical skills utilized in the design and construction of vocational-technical curriculums; relationships between related and laboratory curriculum content. 3 s.h.

Y 0998 0403 Methods of Teaching Vocational-Technical Subjects

Methods of teaching, based on vocational-technical education objectives, will include selection of subject matter, selection of textbooks and other source material, starting a class, preparing individual and sequential lessons, organizing demonstrations, using teaching aids, developing instructional materials, record keeping, evaluation of pupil progress. 3 s.h.

Y 0998 0404 Instructional Material Development in Vocational-Technical Education

Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets. 3 s.h.

Y 0998 0408 Vocational-Technical In-Service Supervised Teaching and Seminar

A two-part course which covers an academic year. The first part, involves the student in a bi-weekly seminar and on-the-job supervision by the seminar instructor. The second part provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded. 8 s.h.

Y 0998 0409 Vocational Guidance

Designed to acquaint teachers in vocational-technical education with the guidance program and to assist them in the guidance functions of classroom and shop. 3 s.h.

Y 0998 0411 Principles and Philosophy of Vocational Education

An overview of vocational education focusing on historical foundations, legislation, current problems

and industry and government relationships. 1 s.h.

Y 0998 0412 Organizing and Teaching Cooperative Education Program

A study of the development of vocational cooperative education and the various methods and techniques employed in operating vocational cooperative education programs. 1 s.h.

Y 0998 0413 Curriculum Construction in Vocational Cooperative Education

An examination of the principles and methods utilized in the construction of curricula for vocational cooperative education. 1 s.h.

Y 0998 0414 Vocational Guidance in Cooperative Education

A study of vocational guidance principles techniques and methods as utilized in cooperative education programs. 1 s.h.

Y 0839 0408 In-Service Supervised Teaching Seminar

For the full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required. 8 s.h.

Y 0990 0382 Automotive Fuel and Electrical Systems

Operation, maintenance, testing and servicing of fuel system, ignition systems and electrical systems. Emission control devices studied in conjunction with carburetion. 3 s.h.

Prerequisites: Y 0990 0381 or permission of Instructor

Y 0839 0301 Technology and Culture: Past-Present-Future

A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the Western Hemisphere during the last 300 years and the world of the future. 3 s.h.

Y 0839 0302 Principles and Methods of Teaching Industrial Education

Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation. 3 s.h.

Y 0990 0323 Architectural Drafting—Residential

The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design, and architectural drafting techniques. 3 s.h.

Y 0990 0491 Construction Technology

Introduction to a systems approach to teaching about the construction segment of industrial technology. 3 s.h.

Y 0990 0492 Manufacturing Technology

Introduction to systems approach to teaching about the manufacturing segment of industrial technology. 3 s.h.

Department of Physical Education

Professors: Tews

Associate Professors: Arnold, Ferris, Horn, Lucenko, Schleede (Chairman), Toth

Assistant Professors: McConnell, Sullivan

Instructors: Crossman, Desiderioscioli, Reiken, Taiga

The Department of Physical Education, a member of the Panzer School Council, offers programs in physical education, physical education and health.

The specific objectives are:

1. to develop those traits, qualities, and characteristics which will enable a student to function effectively as an individual, in his area of professional specialization and as a member of his community;
2. to supply leadership in programs of physical education, athletics and recreation for schools, camps, playgrounds, recreation centers and other agencies;
3. to provide a broad program of physical activity so that all students in the college can develop and understand physical education values, develop skills for use in leisure hours and derive physical

fitness and recreational benefits;

4. to offer all students opportunities for expression through participation in physical activities.

Physical Education Major

Requirements

Z 0837 0101	Health for Personal Living	3
Z 0835 0110	Aquatics or 0111 Lifesaving or 0112 WSI	1
Z 0835 0113	Men's Gymnastics and Tumbling	2
	Gymnastic Elective	2
Z 0835 0114	Women's Gymnastics and Tumbling	2
Z 0835 0132	Wrestling	1
Z 0835 0140	Movement Education and Rhythm	1
	Two Team Sports	2
Z 0835 0220	Physiology of Exercise	2
Z 0835 0221	Kinesiology	2
Z 0835 0222	Basic Motor Learning	2
Z 0835 0224	Camping and Outdoor Education	4
Z 0835 0235	P.E. Activities for Elementary School	4
Z 0835 0351	Adapted Physical Education	4
Z 0835 0352	Dev. Philosophy and Principles of P.E.	4
Z 0835 0355	Measurement and Evaluation in P.E.	4
I 1008 0240	Modern Dance	1
	Individual and Dual Sport Electives	1
	Dance Elective	1
	Physical Education Electives	1
Electives		1
Professional Seq. for Teacher Ed. Certification		1
A. Prior to Student Teaching		
7 2001 0101 Human Growth and Development		
7 2001 0200 Educational Psychology		
Ed. Elective: Jr. Field Experience		
Z 0835 0317 Teaching of Physical Education		
B. Professional Semester		
Teacher School Society		
Student Teaching		
Senior Field Experience		
Seminar		

Professional Laboratory Experience Requirement

Each student is required to make two visitations in each of five activity courses for a total of ten visits to be completed in the first two years. The observations may be in any course in the curricular categories of team sports, individual and dual activities, or rhythm and dance, and physical education for the elementary school.

Requirements for B.A. Degree and Certification to Teach Physical Education and Health Education

	Semester Hour
I. General Education	3
(see Bulletin for details)	
II. Free Elective	0-
III. Communication Requirement	0-
(see Bulletin for details)	
IV. Physical Education	0-
Any one of the team sports you take in your major program will meet this requirement.	

V. Professional Sequence	24
(See Pg. 00 for details)	
VI. Specialization Physical Education and Health Education	56

Physical Education and Health Major

Requirements

Z 0837 0101	Health for Personal Living	3
	Two Team Sports of Choice	2
Z 0835 0110	Aquatics or 0111 Lifesaving or 0112 WSI	1
Z 0835 0113	Men's Gymnastics and Tumbling	1
Z 0835 0114	Women's Gymnastics and Tumbling	1
	Gymnastics Elective	2
Z 0835 0132	Wrestling	1
Z 0835 0140	Movement Education and Rhythm	1
Z 0835 0220	Physiology of Exercise	2
Z 0835 0221	Kinesiology	2
Z 0835 0222	Basic Motor Learning	2
Z 0835 0224	Camping and Outdoor Education	2
Z 0835 0235	P.E. Activities for Elementary School	2
Z 0835 0351	Adapted Physical Education	3
Z 0835 0352	Dev. Phil. and Principles of P.E.	3
Z 0835 0355	Measurement and Evaluation in P.E.	2
I 1008 0240	Modern Dance	1
	Individual and Dual Sport Electives	4
	Dance Elective	1
	Physical Education Elective	5
Select one		
Z 0837 0210	Consumer Health	3
Z 0837 0220	Mental Health	3
Z 0837 0240	Foundations of Environmental Health	3
Select two		
Z 0837 0305	Communicable Diseases	3
Z 0837 0310	Chronic-Degenerative Diseases	3
Z 0837 0315	Community Health	3
Select one		
Z 0837 0411	The School Health Program	3
Z 0837 0413	The Drug Abuse Program	3
Z 0837 0290	Human Sexuality	3
Z 0837 0401	Teaching of Health	3
	REQUIRED TOTAL	58

Completion of the above program qualifies the student for the combined certificate to teach physical education and health.

Students who desire separate certificates (one to teach physical education and one to teach health education) must complete the total approved college curriculums for each of these majors.

Professional Sequence	24
-----------------------------	----

Physical Education Course Descriptions

Z 0835 0101 Field Hockey	
Individual skill development in hockey: analysis, team tactics, offensive and defensive strategy and rules; practical application in game situations.	1 s.h.
Z 0835 0102 Soccer	
The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.	1 s.h.

Z 0835 0103 Women's Basketball

Learning experiences in the skills and techniques of basketball: rules, offensive and defensive team strategy.

1 s.h.

Z 0835 0104 Women's Softball

Skills, techniques, rules and concepts of team play and strategy essential to this sport; playing the game.

1 s.h.

Z 0835 0106 Men's Baseball and Softball

Methods, theory, skill testing and class organization for effective teaching of baseball and softball.

1 s.h.

Z 0835 0107 Men's Basketball

Methods, theory, skill testing and conditioning procedures.

1 s.h.

Z 0835 0108 Football

The history, development and present status of the sport; basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.

1 s.h.

Z 0835 0110 Aquatics

For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.

1 s.h.

Z 0835 0111 Lifesaving

Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.

1 s.h.

Prerequisites: must be able to: 1. Perform standing front dive; 2. Swim 440 yds. continuously using various strokes; 3. Dive from surface to minimum depth of six feet and swim 15 feet underwater; 4. Tread water one minute.

Z 0835 0112 Water Safety Instruction

This course follows the standards and procedures for certification by the American Red Cross.

Prerequisite: a current A.R.C. senior lifesaving card

1 s.h.

Z 0835 0113 Men's Gymnastics and Tumbling

To develop skill in tumbling and gymnastics and demonstrate an understanding of skill. Level appropriate for all grade levels. Safety measures concerning the equipment and spotting.

2 s.h.

Z 0835 0114 Women's Gymnastics and Tumbling

To develop skill in tumbling and gymnastics and demonstrate an understanding of skill level appropriate for elementary and high school grades. Safety measures concerning equipment and spotting.

2 s.h.

Z 0835 0115 Lacrosse

The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.

1 s.h.

Z 0835 0116 Volleyball

The student is provided with the history, development, and present status of the sport. Analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety, and evaluation.

1 s.h.

Z 0835 0118 Women's Gymnastics and Tumbling II

To provide the student with knowledge of and skill in advanced techniques in women's gymnastics and tumbling applicable for secondary school students. Spotting and safety measures will be emphasized.

Prerequisites: performance prerequisites required prior to registration. May be taken in lieu of Women's Gymnastics and Tumbling. Consult the department chairperson first.

2 s.h.

Z 0835 0120 Bowling

The history, rules, techniques, strategies, terminology and rules are discussed; students attend classes at bowling alleys for practical experience.

1 s.h.

Z 0835 0122 Golf

To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.

1 s.h.

Z 0835 0124 Badminton

A comprehensive analysis of the techniques and skills of each sport; current trends, rules, terminology, equipment and game strategy.

1 s.h.

Z 0835 0126 Archery

The development and present status of archery; basic skills, tournament strategy and rules.

1 s.h.

Z 0835 0128 Fencing

The history, rules, skills, progression and teaching techniques of fencing.

1 s.h.

Z 0835 0130 Tennis

The development and present status of this sport; basic skills, game strategy and rules.

1 s.h.

Z 0835 0131 Fitness Activities

A sound developmental program designed both for the individual who is below par in strength or physical capacity and for the conditioned individual.

1 s.h.

Z 0835 0132 Wrestling

The history, development and present status of wrestling, basic skills, strategy, rules and specific techniques concerning class organization, safety and evaluation.

1 s.h.

Z 0835 0133 Men's Track and Field

The work in track and field will cover the events for men and will consist of practice in these events as well as discussion of their use in class and varsity programs.

1 s.h.

Z 0835 0134 Women's Track and Field

Techniques for performance and analysis of all track and field activity, including cross-country.

1 s.h.

Z 0835 0140 Movement Education and Rhythm

Recognizing and developing one's own innate capacities for natural, coordinated movement. Theory, material, and methods, for developing correct movement and rhythm in the elementary and secondary schools. Creativity will be encouraged and percussion instruments and other medium will be used for accompanying movement.

1 s.h.

Z 0835 0141 American Folk and Square Dance

Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.

1 s.h.

Z 0835 0142 European Folk Dance

This course will cover beginning to advanced dances from the various European countries.

1 s.h.

Z 0835 0143 Social Dance

The fundamentals of social dance are presented to the student.

1 s.h.

Z 0835 0150 Principles and Practices of Emergency Care

This is a combined lecture and practical course designed to acquaint the student with purposes and principles of safety in contemporary society and the handling of emergency situations of illness or accident.

2 s.h.

Z 0835 0201 Advanced Field Hockey

The student is provided with advanced skills and team strategies of the game. Analysis of skills and actual teaching experience will be emphasized along with selection and care of equipment.

1 s.h.

Z 0835 0203 Advanced Women's Basketball

An analysis of the individual skills of basketball; game concepts; instructional techniques and basic team strategies.

1 s.h.

Z 0835 0204 Advanced Women's Softball

This course will deal with advanced skills and team strategies. Theory, skills, and concepts of the game in a practice situation.

1 s.h.

Z 0835 0216 Advanced Volleyball

Advanced skills, various offensive and defensive strategies; advanced team play. Practice procedures, formation, techniques and evaluative criteria with regard to class organization.

1 s.h.

Prerequisite: Z 0835 0102

Z 0835 0220 Physiology of Exercise

The physiological effects of activity upon the human organism; the reaction of exercises of speed, strength and endurance upon the circulatory, respiratory and muscular systems; the causes of fatigue, staleness and exhaustion.

2 s.h.

Prerequisites: anatomy and physiology; Q 0401 0240, Q 0401 0241

Z 0835 0221 Kinesiology

In-depth analysis of the anatomy of the skeletal and muscular systems. The physical principles of movement and the anatomical derivation of motion; utilizing this knowledge in teaching and coaching.

2 s.h.

Prerequisites: Anatomy and Physiology: Q 0401 0240, Q 0401 0241

Z 0835 0222 Basic Motor Learning

The physical and psychological factors related to motor learning in physical education activities; the role of the teacher in facilitating motor skill equipment.

2 s.h.

Prerequisites: Q 0401 0240, Q 0401 0241

Z 0835 0223 Basic Prevention and Care of Athletic Injuries

Introduction to aspects of sports medicine which are necessary to the safe conduct of sports. The physiological and medical bases of treatment, management procedures and skills in the application of treatment. Medical and safety problems, protective equipment and facilities, training techniques, and nutrition and diet. For men and women; lecture as well as training room experience.

3 s.h.

Z 0835 0224 Camping and Outdoor Education

This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education; introduction to recreational (individual and small group), and organized camp.

2 s.h.

Z 0835 0226 Coaching Principles and Problems

A practical guide to ethics, principles and organizational problems of coaching. Provides the beginning coach with the information necessary to help him or her deal effectively with common problems of athletic competition.

3 s.h.

Z 0835 0227 Sport in Sociocultural Process

A macro-analysis of sport in society, dealing with sport and physical activity as a sociological phenomenon, emphasizing the heritage of sport in America and abroad, socio-economic dimensions of sport and minorities in sport.

3 s.h.

Z 0835 0232 Rhythms for Elementary School Children

Materials and methods for teaching various rhythms to elementary school children; fundamental movements, singing games, creative movements, routines to music with ropes, balls, exercises, wands hoops, lummi sticks and formation of a rhythm band.

1 s.h.

Z 0835 0234 Dance for Elementary School

Theory, materials and methods for teaching dance in an elementary physical education program.

1 s.h.

Z 0835 0235 Physical Education Activities in the Elementary School

To provide the student with information concerning the physical, social, intellectual and emotional characteristics of the elementary school child, and the selection and teaching of appropriate non-sport activities in physical education.

2 s.h.

Z 0835 0240 Gymnastics for Elementary School

The methods and materials in gymnastics for elementary school through a sensorimotor approach to learning and performance.

2 s.h.

Prerequisites: Z 0835 0112, or Z 0935 0113

Z 0835 0241 Men's Gymnastics for Secondary School

Methods and materials in gymnastics for secondary school physical education. The organization of

gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics. 2 s.h.

Z 0835 0242 Women's Gymnastics for Secondary School

Methods and materials in gymnastics which are applicable for teaching in the secondary schools. Methods of teaching tumbling and apparatus work. 2 s.h.

Prerequisite: Z 0835 0114

Z 0835 0301 Coaching Field Hockey

Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules. 2 s.h.

Z 0835 0303 Coaching Women's Basketball

Coaching basketball at all levels of competition. Individual advanced skills, team strategies and educationally sound coaching techniques. 2 s.h.

Z 0835 0304 Coaching Women's Softball

Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules. 2 s.h.

Z 0835 0306 Coaching Men's Baseball

Individual skills and team techniques of coaching baseball; administration and organization of practice sessions for effective learning. 2 s.h.

Z 0835 0307 Coaching Men's Basketball

The offensive and defensive strategy of basketball; rules and techniques of officiating and their application. 2 s.h.

Z 0835 0308 Coaching Football

Techniques and methods of coaching football with emphasis on team play; offensive and defensive methods for running, passing and kicking games. Complete organization of a football program is presented. 2 s.h.

Z 0835 0309 Coaching Soccer

The fundamental concepts of coaching soccer on the interscholastic level; physiological and psychological effects of participation. 2 s.h.

Z 0835 0310 Coaching Swimming and Diving

Practical knowledge of coaching swimming and diving, coaching theory, the perfecting of skills and conditioning procedures. 2 s.h.

Z 0835 0312 Aquatic Art

The creative development of strokes, stunts, and styles of swimming utilized in aquatic art. Patterns, formations, staging, costuming, selection of music and conditioning and training techniques. 2 s.h.

Z 0835 0313 Men's Competitive Gymnastics in Schools

For the student who desires to become a special teacher or coach of advanced gymnastics. The terminology of the sport, training methods, current trends in requirement for performance, organization and the FIG rules. Methods of teaching and the application of sound safety procedures. Advanced gymnastics examined critically in the light of physiological and mechanical factors. 2 s.h.

Prerequisite: Z 0835 0114

Z 0835 0314 Competitive Women's Gymnastics in Schools

Coaching competitive gymnastics: women's gymnastics, dance in gymnastics, training methods on the four Olympic events, techniques and skill analysis. 2 s.h.

Prerequisite: Z 0835 0114

Z 0835 0317 Coaching of Volleyball

Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach. 2 s.h.

Z 0835 0322 Coaching Golf

Methods and techniques of coaching golf; medal and match play strategy. The organization of a

- complete golf program. Drills, fundamental strokes, rules and etiquette. 2 s.h.
- Z 0835 0330 The Coaching of Tennis**
The techniques and methods of coaching tennis; strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strikes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and interschool competition. 2 s.h.
- Z 0835 0332 Coaching of Wrestling**
Techniques and methods of coaching wrestling. Emphasis on developing programs, mat tactics and strategy. 2 s.h.
- Z 0835 0333 Coaching of Track and Field**
Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities
Prerequisites: Z 0835 0133 or Z 0835 0134 2 s.h.
- Z 0835 0340 Fitness and the Aging Process**
The course will deal with the physiological, emotional and social changes experienced by the older adult as he/she moves through the aging process. The student will be helped to assess fitness needs based on these findings and to select appropriate activities. Methods and techniques for communicating with and teaching the older adult will be an important part of the course content. Field trips and observations of older adult activities will also be included. 4 s.h.
Prerequisites: Q 0401 0240, Q 0401 0241, Z 0835 0220
- Z 0835 0351 Adapted Physical Education**
A lecture and participation course covering the philosophy and goals of adapted physical education for children with handicaps. A minimum of 3 hours per week of clinical experience in schools, clinics and /or hospitals is required. 3 s.h.
Prerequisites: kinesiology; Q 0401 0240, Q 0401 0241
- Z 0835 0352 Development, Philosophy and Principles of Physical Education**
History and development from primitive to modern times. Principles of physical education in the light of scientific knowledge, aims and objectives; the place in the total educational program. May not be taken until the junior year. 3 s.h.
Prerequisite: junior-senior standing
- Z 0835 0353 Psychology of Sport**
Psychology related to physical activity on emotional, attitudinal and personality aspects. Motivation cultural and sociological problems of athletes, spectator response and deportment. 3 s.h.
- Z 0835 0355 Measurement and Evaluation in Physical Education**
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. 3 s.h.
Prerequisite: open to juniors and seniors only
- Z 0835 0357 Teaching of Physical Education**
Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment. 4 s.h.
Prerequisite: acceptance into Teacher Education
- Z 0835 0358 Organization and Administration of Physical Education**
Legislation, financing, plant facilities, care and purchase of supplies and equipment, office management and records, intramural programming and tournaments, and conduct of varsity sports. 2 s.h.
- Z 0835 0359 Organization and Administration of Athletics**
For those who expect to become teachers, supervisors and athletic directors. Athletic eligibility management, equipment, records, intramural programming and tournaments, awards, finance budgets, safety, maintenance, planning of facilities, junior and senior high school athletics and current trends. 2 s.h.
- Z 0835 0361 Physical Activity for the Emotionally Handicapped**
Identifying the levels of emotional handicaps experienced by children; understanding psychological and

social needs. Activities suitable for meeting the needs of these children.

2 s.h.

Z 0835 0362 Physical Activity for the Mentally Handicapped

Current practices, problems, legislation and financing of programs for the mentally retarded; developing a physical activity program to meet the needs of the educable and trainable mentally retarded.

2 s.h.

Z 0835 0363 Physical Activity for the Sensory Handicapped

Provides information concerning the needs of those with sensory handicaps and some understanding concerning their social and psychological needs and present materials in physical education activities suitable for each handicap.

2 s.h.

Z 0835 0375 Foundations and Practices in Cardiac Rehabilitation

Knowledge and skills related to cardiac rehabilitation which is necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course.

3 s.h.

Prerequisites: Z 0835 0220 or instructor's permission, Q 0401 0240, Q 0401 0241

Z 0835 0379 Internship in Athletic Training

This course is designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries courses. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.

4 s.h.

Prerequisites: Z 0835 0150, Z 0835 0223, Z 0835 0323

Z 0835 0380 Internship in Physical Education

Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job professional competency will be utilized as related to the career goals of the student. Available to students not completing the student-teacher sequence only.

8 s.h.

Prerequisite: minimum of 60 s.h. completed

Z 0835 0381 Cooperative Education in Physical Education

Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a department faculty coordinator, is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student-teacher sequence only.

8 s.h.

Prerequisites: 60 s.h. completed, 2.45 G.P.A., 2.67 major G.P.A. or permission of Instructor. Majors only

Z 0835 0399 Independent Study in Physical Education

Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

1-6 s.h.

Prerequisite: senior standing

Z 0835 0492 Selected Topics in Physical Education

A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

3 s.h.

Prerequisite: for undergraduate senior and graduate students only.

Z 0835 0323 Advanced Prevention and Care of Athletic Injuries

Designed to provide the student with in-depth information and practical experience in prevention, care and rehabilitation of athletic injuries. Individuals selecting this course should be preparing to become certified trainers (NATA).

3 s.h.

Prerequisite: Z 0835 0223; instructor's permission

**Non-Major Theory
Course Descriptions**

0879 0200 Beginning Swimming

This course is designed for those who do not have a minimum knowledge and skill to move

comfortably in water. The scope of the course will cover a wide area of swimming studies and survival techniques. 1 s.h.

Z 0879 0203 Golf

To permit the student to attain the minimum skill necessary for enjoying this individual type of game. 1 s.h.

Z 0879 0204 Ethnic and Cultural Aspects of Physical Activity

This course will involve the student in study of ethnic style, philosophy and culture of international dance. The development of folk festivals; a study of folklore arts of geographical areas; a study of an experimentation with unusual recreational and sport activities from other countries. The development of performance skills will be a part of the course. 2 s.h.

Z 0879 0227 Anatomical and Physiological Foundations of Coaching

Designed for the non-physical-education major who desires to coach athletics. 3 s.h.

Z 0879 0228 Mechanics of Athletic Performance

Designed for the non-physical-education major who is interested in athletic coaching. 3 s.h.
Prerequisite: Z 0879 0227

Z 0879 0242 Racquetball

The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied. 1 s.h.

Z 0879 0250 Intermediate Swimming

This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis. 1 s.h.

Z 0879 0251 Aerobic Activities

This is a non-major service course for the development of movement patterns, endurance and cardiovascular fitness. 1 s.h.

Z 0879 0252 Archery

Fundamentals, and use of archery as a leisure pursuit. 1 s.h.

Z 0879 0253 Gymnastics

Gymnastics and conditioning and development of skills in gymnastic movements. 1 s.h.

Z 0879 0257 Weight Training & Conditioning

For developing strength and general body conditioning. 1 s.h.

Z 0879 0258 Beginning Tennis

Fundamental skills of tennis, singles and doubles play, appreciation of tennis as a leisure pursuit. 1 s.h.

Z 0879 0260 Beginning Riding

Techniques for the beginner. Taught at a riding academy. 1 s.h.

Z 0879 0261 Fencing

Fundamentals of fencing; understanding of fencing as a sport. 1 s.h.

Z 0879 0262 Volleyball

Skills in volleyball for recreation purposes and power volleyball for more advanced players. 1 s.h.

Z 0879 0263 Jogging

Proper techniques for jogging stressed. Development of cardiovascular fitness through progressive running. 1 s.h.

Z 0879 0264 Soccer

The origin, development and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical-education majors, the principle aim is to introduce the student to the fundamentals of soccer. 1 s.h.

Z 0879 0265 Figure Skating

Figure skating for the novice taught at an off-campus skating rink.

1 s.h.

Z 0879 0266 Skiing

The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his/her level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment.

1 s.h.

Z 0879 0267 Advanced Swimming

This course is designed for men and women who have at least a minimum amount of knowledge and skill to move comfortably in deep water. Open to men and women.

1 s.h.

Z 0879 0268 Bicycling

Bicycle safety, care of the bicycle and skill in riding a bicycle in a variety of situations.

1 s.h.

Z 0879 0269 Badminton

To acquaint student with the sport badminton. To develop sufficient skill and knowledge in the sport to encourage participation.

1 s.h.

Z 0879 0270 Folk and Square Dance

This course covers the history, techniques and styles of a wide variety of folk and square dances.

1 s.h.

Z 0879 0271 Social Dance

The course covers the traditional ballroom dances as well as current popular styles and routines.

1 s.h.

Z 0879 0272 Bowling

Scoring, league play, and the use of bowling as a leisure pursuit.

1 s.h.

Z 0879 0274 Scuba Diving

Scuba diving techniques and safety.

1 s.h.

Z 0879 0275 Beginning Karate

Beginning karate. Skills and development of personal ability in performance of the activity.

1 s.h.

Z 0879 0278 Yoga Principles and Practices

Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with.

1 s.h.

Z 0879 1275 Advanced Karate Self-Defense

To develop a higher understanding in the art of karate, to participate in interclub competition, to teach philosophy of the oriental arts and its relationship to karate and to explain and teach beginning kata form movements of karate dealing with multiple attack differences are specific objectives of the course.

Prerequisite: Z 0879 0275 or instructor's permission

1 s.h.

Department of Recreation Professions

Professor: Miller (Chairman)

Associate Professor: Nolan

Assistant Professor: Wolcott

The baccalaureate degree program in recreation prepares the student for professional entry into a variety of service and leadership roles in the public and private recreation and leisure enterprises. The student who is enrolled in this program selects a concentrated area of study in either commercial recreation, community and municipal recreation, outdoor recreation, therapeutic recreation or general recreation (a combination of studies in the above areas). Additional offerings permit the student to participate in professionally supervised trainee and internship programs. The baccalaureate program in the Department of Recreation Professions is designed to prepare the student for graduate studies.

Commercial Recreation

Includes preparation for entry into a variety of profit making enterprises which offer recreation as a primary or secondary service. This concentration assists the student who is interested in owning, managing or working with industries in areas such as travel and tourism, athletic clubs, theme parks, country clubs, resorts, hotels, camps and the retail businesses in recreation equipment and supplies.

Community and Municipal Recreation

Includes preparation for professional entry into beginning supervisory and management responsibilities that lead to administrative positions in the public and private not-for-profit agencies and organizations at the local, state, regional-special district, national and international levels.

Outdoor Recreation

Includes preparation for beginning entry into land and water resource administration, environmental interpretation, outdoor recreation-education programming, outdoor recreation planning and park management. This concentration assists the student who is interested in working in local, state and national parks and forests, camps, environmental centers, urban parks and many other appropriately related settings.

Therapeutic Recreation

Includes specific and well-defined services in relation to recovery or adjustment to illness, disability, or a special social problem. This concentration assists the student in organizing, administering and presenting therapeutic recreation activities that develop skills and other social-psychological benefits for the ill, aged, and the handicapped person in both the medical and community-based settings.

General Recreation

The general recreation emphasis is geared for those students who do not wish to concentrate in any one of the above areas of study. These students take the same core of professional studies, but augment this core by selecting a variety of recreation courses from the above areas of concentration.

Professional Practica

All recreation majors must participate in a variety of field experiences and work-study programs in professionally supervised laboratory situations. An Honors Internship option is available to those seniors who have a 3.0 GPA in their major by the end of their junior year. These experiential learning opportunities are essential to the student's career as a major in Recreation Professions.

Required Collateral Courses

Students expecting to major in the program should plan to take the collateral requirements in health, physical education, psychology and anthropology or sociology during their first year(s), preparation for the professional sequence and area of concentration in the latter years of college.

The following collateral courses are required of all recreation professions majors and may be drawn from either general education requirements or free electives: Z 0835 0150 Principles and Practices of Emergency Care; W 0837 0101 Health for Personal Living; 7 2001 0101 General Psychology I: Growth and Development; and 3 s.h. of anthropology, psychology or sociology. Note: Z 0835 0150 may be used only as a free elective and W 0837 0101 may not be used in the common core.

Recreation Professions Major

Requirements

		Semester Hours
Z 0849 0260	Recreation and Leisure Services	
Z 0849 0280	Recreation Leadership	
Z 0849 0331	History and Philosophy of Recreation and Leisure Services	
Z 0849 0344	Programming for Leisure	
Z 0849 0350	Outdoor Recreation Planning	
Z 0849 0356	Recreation for People with Disabling Limitations	
Z 0849 0362	Management of Recreation and Leisure Services	

Z 0849 0481	Field Experience in Recreation Professions	8
(Above course may be substituted with 0849 0482, Honors Internship in Recreation and Leisure Services, 8-12 s.h., by those students who meet the qualifying criteria.)		

Select one course from each of the following four groups:

Group 1 (Any course from this group meets P.E. requirement)

Z 0849 0201	Lifetime Sports	2
Z 0849 0202	Recreational Team Sports	2
Z 0849 0206	Aquatics in Recreation	2

Group 2

Z 0849 0203	Outdoor Recreation Skills	2
Z 0849 0204	Winter Outdoor Recreation Skills	2
Z 0849 0205	Spring Outdoor Recreation Skills	2

Group 3

U 0501 0315	Organizational Behavior	3
U 0501 0316	Human Resource Management	3
(Z 0849 0362 meets prerequisite requirements for above two courses)		
Z 0509 0343	Promotion and Persuasion	3
(7 2001 0101 and 3 s.h. of Anthropology, Psychology, or Sociology meet prerequisites for above course)		

Group 4

7 2001 0255	Environmental Psychology	3
7 2001 0335	Social Psychology	3
8 2208 0406	Sociology of Small Groups	3

REQUIRED TOTAL 39

Areas of Concentration

Select 15 semester hours from one of following concentrations:

A. Commercial Recreation

Z 0849 0425	Commercial Recreation and Leisure Services	3
Z 0849 0427	Delivery of Commercial Recreation Services	3
U 0501 0433	Entrepreneurship and Innovation	3

Select 6 s.h. from the following with approval of faculty advisor:

U 0501 0335	Small Business Management	3
U 0501 0439	Business Policy	3
U 0509 0441	Consumer Motivation	3
U 0509 0446	Marketing Strategies	3
U 0506 0491	Business Problems	3

X 1301 0335 Consumers in the Market

B. Community and Municipal Recreation		
Z 0849 0423	Public Recreation and Leisure Services	3
Z 0849 0445	Special Events Planning and Promotion	3
Z 0849 0461	Community and Public Relations in Recreation	3

Select one of the following groups of courses:

Group 1

Z 0835 0320	Recreational Needs of Urban Society	3
(Above course meets Minorities Culture Course Requirement)		

and one of the following:

6 2207 0304	State and Local Government	3
6 2207 0305	Introduction to Public Administration	3
6 2207 0310	Public Personnel Administration	3
6 2207 0311	Governmental Budgeting	3
6 2207 0315	Urban Administration	3

Group 2

Z 0849 0424	Voluntary Recreation and Leisure Services	3
and one of the following:		

X 1301 0445	The Inner City Family
1 2202 0404	Urban Anthropology
6 2207 0304	State and Local Government
8 2208 0308	Sociology of Constructive Voluntary Action
8 2208 0309	Voluntary Organizations in American Life

C. Outdoor Recreation

Z 0849 0410	Implementation of Outdoor Recreation Programs
Z 0849 0416	Recreation Areas and Facilities Operations
T 1914 0220	Conservation of Natural Resource

Select 6 semester hours from the following with approval of faculty advisor:

4903 0461	Humanities and the Environment
4903 0462	Field Techniques for Teaching the Humanities
Y 0990 0433	Color Photography
Y 0990 0496	American Heritage Skills
T 1914 0320	Contemporary Problems in Conservation of Natural Resources
T 1914 0325	Environmental Geology
T 1914 0410	Geology of New Jersey
4 2206 0204	Principles of Land Use
4 2206 0331	Urbanization and Environment
4 2206 0404	Geo-ecology
4 2206 0411	Problems in Urban Geography
4 2206 0423	Culture and Resource Utilization
4 2206 0424	Geography of New Jersey
4 2206 0462	People and Cities: Comparative Urban Studies
W 4922 0400	Designing Learning Environments
W 4951 0404	Outdoor Teaching Sites for Environmental Education

D. Therapeutic Recreation

Z 0849 0373	Recreation and Rehabilitation Services
Z 0849 0472	Therapeutic Recreation
W 0837 0460	Systems of Health Care Delivery

(W 0837 0101 and Z 0849 0356 meet prerequisites for above course)

Select 6 semester hours from the following with approval of faculty advisor:

G 0831 0310	Group Art Therapy and Creativity Development
Z 0835 0301	Adapted Physical Education
Z 0835 0321	Physical Activity for Emotionally Handicapped
Z 0835 0322	Physical Activities for the Mentally Handicapped
Z 0837 0310	Chronic and Degenerative Diseases
Z 0837 0445	Perspectives on Death
Y 0990 0499	Recreation Crafts
H 1017 0160	Introduction to Music Therapy I
H 1017 0261	Introduction to Music Therapy II
H 1017 0460	The Use of Recreational Music in Therapy
X 1301 0444	The Social Challenge of Aging
7 2001 0303	Psychosocial Aspects of Aging
7 2001 0320	Psychology of the Handicapped
7 2001 0325	Psychology and Education of the Gifted
7 2001 0328	Abnormal Psychology
8 2202 0404	Urban Anthropology
8 2202 0413	Medical Anthropology
8 2208 0211	Sociology of Health and Illness

E. General Recreation

Select five courses from at least three areas of concentration. At least three of the five courses must be Recreation Professions (0849) courses.

Electives

Select a combination of nine semester hours from any of the Recreation Professions (0849) course offerings.

Free or Collateral Electives 20

Recreation Professions Course Descriptions

Z 0849 0201 Lifetime Sports

Introduction to fundamental skills, techniques, rules, and materials in various recreational activities which have high potential for life-long participation. Included are archery, bowling, golf and tennis.

2 s.h.

Z 0849 0202 Recreational Team Sports

Introduction to fundamental skills, techniques, rules and materials in various recreational team sports, including basketball, soccer, softball and volleyball. Team, league, tournament and culminating event planning and organization.

2 s.h.

Z 0849 0203 Outdoor Recreation Skills

Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required. (Students may count only one course from Z 0849 0203, 0204, 0205 toward their major.)

2 s.h.

Z 0849 0204 Winter Outdoor Recreation Skills

Taught at the NJ School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling and winter survival. If weather is unseasonably mild, substitutes such as rock climbing, orienteering and backpacking will be taught. A special fee includes room, board, and equipment use. (Students may count only one course from Z 0849, 0203, 0204, 0205 toward their major.)

2 s.h.

Z 0849 0205 Spring Outdoor Recreation Skills

Field application of the basic skills learned in the fall and new skills based on water resources. Students will be in residence at the NJ School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use. (Students may count only one course from Z 0849 0203, 0204, 0205 toward their major.)

2 s.h.

Prerequisite: Z 0849 0203 or instructor's permission

Z 0849 0206 Aquatics in Recreation

Fundamental skills, techniques and materials in aquatics activities as utilized in organized programs of recreation and leisure services. Overview of planning, management, and operation policies and procedures.

2 s.h.

Z 0849 0213 Group Interaction in a Recreational Setting

Handling small and large groups of people in a social situation. Needs of all age groups. Ice-breakers and mixers, seasonal events, active, and quiet parties, skits and dances.

2 s.h.

0849 0260 Recreation Leisure Services

Study of various agencies providing recreation and leisure services. Emphasis upon functions, areas, clientele, and career opportunities. Field visits required.

3 s.h.

0849 0280 Recreation Leadership

Recreation leadership with small and large groups. Emphasis upon appropriate theories and techniques for specific clientele. Course includes 45 hours of recreation leadership in community under professional direction.

3 s.h.

Prerequisites: Z 0849 0201, Z 0849 0210

0849 0290 School Community Recreation

Inquiry into the historical and contemporary processes and practices utilized in the planning and development of school and community resources for recreation and leisure.

3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280

Z 0849 0299 Selected Topics in Recreation Park Administration

Professional inquiry into the study of a selected issue, problem or trend in recreation park administration.

1-3 s.t

Prerequisite: Prior approval of dept. chairperson.

Z 0849 0301 Survey Research Methods in Recreation Park Professions

An introduction to the various techniques used in survey research; the appropriate application of survey method, tools for investigating questions directly related to problems in the recreation and park professions.

3 s.t

Prerequisites: Z 0849 0260, Z 0849 0280

Z 0849 0320 Urban Society

Survey and evaluation of leisure and recreation as a social force. Recreation history and philosophy in light of changing times; present and future recreational needs and problems of urban society.

3 s.t

Z 0849 0330 Leisure and Recreation in Society

Analysis and interpretation of the concepts of leisure; its role in individual, community and nation lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society.

3 s.t

Z 0849 0331 History and Philosophy of Recreation and Leisure Services

History and development of recreation and leisure services in the U.S.; philosophical bases, current theories and practices. Philosophical directions for the future.

3 s.t

Prerequisite: Z 0849 0260

Z 0849 0344 Programming for Leisure

Analysis of pertinent factors in planning and evaluating recreation programs; interrelationship of need and interests of people, community setting, and activity content. Emphasis on program construction and scheduling.

3 s.t

Prerequisites: Z 0849 0260, Z 0849 0280

Z 0849 0350 Outdoor Recreation Planning

Nature, significance, scope and trends of outdoor recreation, outdoor recreation planning, policy formation, and administration.

3 s.t

Prerequisite: CRS in similar field; instructor's permission

Z 0849 0353 Cooperative Education in Recreation and Leisure Services

Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.

8 s

Prerequisites: Z 0849 0260, Z 0849 0280; CRS in similar field

Z 0849 0356 Recreation for People with Disabling Limitations

Adaption of recreation and leisure services for persons with special needs or limitations; role institutions and community agencies; specialized leadership techniques; modification requirements for areas, facilities, equipment, and supplies. Field visits required.

3 s.t

Prerequisites: Z 0489 0260, Z 0849 0280, 8 2208 0211

Z 0849 0360 Organizational Patterns of Recreation and Leisure Services

Organizational patterns and legal aspects of public, private, commercial and voluntary agencies offering organized recreation programs or leisure services at national, regional, state or local levels. Field visits required.

3 s.t

Prerequisites: Z 0849 0260, Z 0849 0331

Z 0849 0362 Management of Recreation and Leisure Services

Principles, practices and procedures in administration and supervision of recreation and leisure services; emphasis on program and personnel supervision, budgeting, facility management and maintenance, community relations. Field visits required.

3 s.t

Prerequisites: Z 0849 0280 and Z 0849 0360, U 0506 0231 The Management Process, U 0506 0315 Organizational Behavior or 2207 0305 Introduction to Public Administration recommended.

Z 0849 0373 Recreation and Rehabilitation Services

Study of roles, procedures, and interrelationships of professional personnel in the rehabilitation services in medical and correctional settings. The team approach to rehabilitation services will be emphasized. Field visits required.

3 s.h.

Prerequisite: Z 0849 0356

Z 0849 0399 Independent Study in Recreation Professions

Independent study in area of student need and/or interest pertinent to recreation professions. Interested students must present detailed written proposal to Director of Recreation Professions Program for approval and determination of credit allocation.

3 s.h.

Prerequisite: Junior, senior standing

Z 0849 0401 Senior Seminar

Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students. Recreation professions majors only.

3 s.h.

Prerequisites: Minimum 2.20 Cumulative GPA at MSC, CRS in similar field

Z 0849 0410 Implementation of Outdoor Recreation Programs

Supervisory considerations in the provision of outdoor recreation areas, facilities, personnel and program services. Emphasis upon appropriate clientele services in rural and natural settings.

3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280, Z 0849 0350

Z 0849 0414 Recreation Area and Facilities Planning

Determination of recreation area and facility needs and types appropriate for organized recreation and leisure services agencies. The planning process and important considerations including principles, standards, guidelines and evaluation techniques. Property selection and acquisition process. Design process and plan preparations. Utilization and modification of existing areas and facilities. Operation and maintenance considerations.

3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280

Z 0849 0416 Recreation Areas and Facilities Operations

Functions of federal, state, and local park areas and facilities operations, including utilization, maintenance and evaluation. Field visits required.

3 s.h.

Prerequisite: Z 0849 0260

Z 0849 0423 Public Recreation and Leisure Services

Roles of federal, regional, state and local governmental agencies providing recreation and leisure services, history, characteristics, legal bases, functions, and nature of services provided. Field visits required.

3 s.h.

Prerequisite: Z 0849 0362

Z 0849 0424 Voluntary Recreation and Leisure Services

Analysis of the roles of various voluntary and private associations, clubs, youth-serving agencies, special interest associations, and employee recreation. Emphasis upon nature and functions of these agencies and organizations. Field visits required.

3 s.h.

Prerequisites: Z 0849 0260, Z 0849 0280

Z 0849 0425 Commercial Recreation and Leisure Services

Analysis of the types of commercial and resort recreation enterprises currently operating; probable trends and directions; problems associated with commercial recreation adventures; possible employment opportunities. Field visits required.

3 s.h.

Prerequisite: Z 0849 0260

Z 0849 0427 Delivery of Commercial Recreation

Requirements and procedures for organizing and implementing commercial recreation services. Field visits required.

3 s.h.

Prerequisite: Z 0849 0425

Z 0849 0445 Special Events Planning and Promotion

Considerations involved in production and promotion of special events that involve large and diverse

publics, budgeting, special facilities and equipment, legal considerations, transportation and crowd management. Field visits required. 3 s.h.

Prerequisite: Z 0849 0362; Instructor's permission

Z 0849 0461 Community and Public Relations in Recreation

Principles, techniques, methods and materials utilized to interpret, promote, and publicize organized recreation and leisure activities through various media and personal contacts. Field visits required.

Prerequisite: Z 0849 0362

3 s.h.

Z 0849 0472 Recreation Therapy

Philosophy, principles, and techniques in the use of recreation as a treatment modality in rehabilitating people with illness or disabling limitations. Role of recreation in total rehabilitation process of various agencies. Field visits required.

3 s.h.

Prerequisite: Z 0849 0356

Z 0849 0481 Field Experience in Recreation

Supervised work experience at leadership or supervisorial level in approved recreation agency. 400 hours required in field. Several seminar meetings and individual conferences as required. 8 s.h.

Z 0849 0482 Honors Internship in Recreation and Leisure Services

Directed full-time professional supervisory experience in a recreation agency. Comprehensive exposure to the agency's resources and program. Individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations. Lecture discussion 1 hour, a minimum of 40 hours per week at the agency, individual conferences and reports.

Prerequisites: senior standing, minimum GPA of 3.0 in major, completion of core and professional focus requirements, above average rating in Rec. 280 or upon recommendation of recreation or leisure agency administrator, completion of all course work for graduation recommended.

8-12 s.h.

New Jersey School of Conservation

Professor: Kirk (Director)

Assistant Professors: Schierloh

Assistant Director: Kelly

Instructors: Merritt, Powers

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Arts and Sciences. The 240-acre facility is located in Stokes State Forest and High Point State Park.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

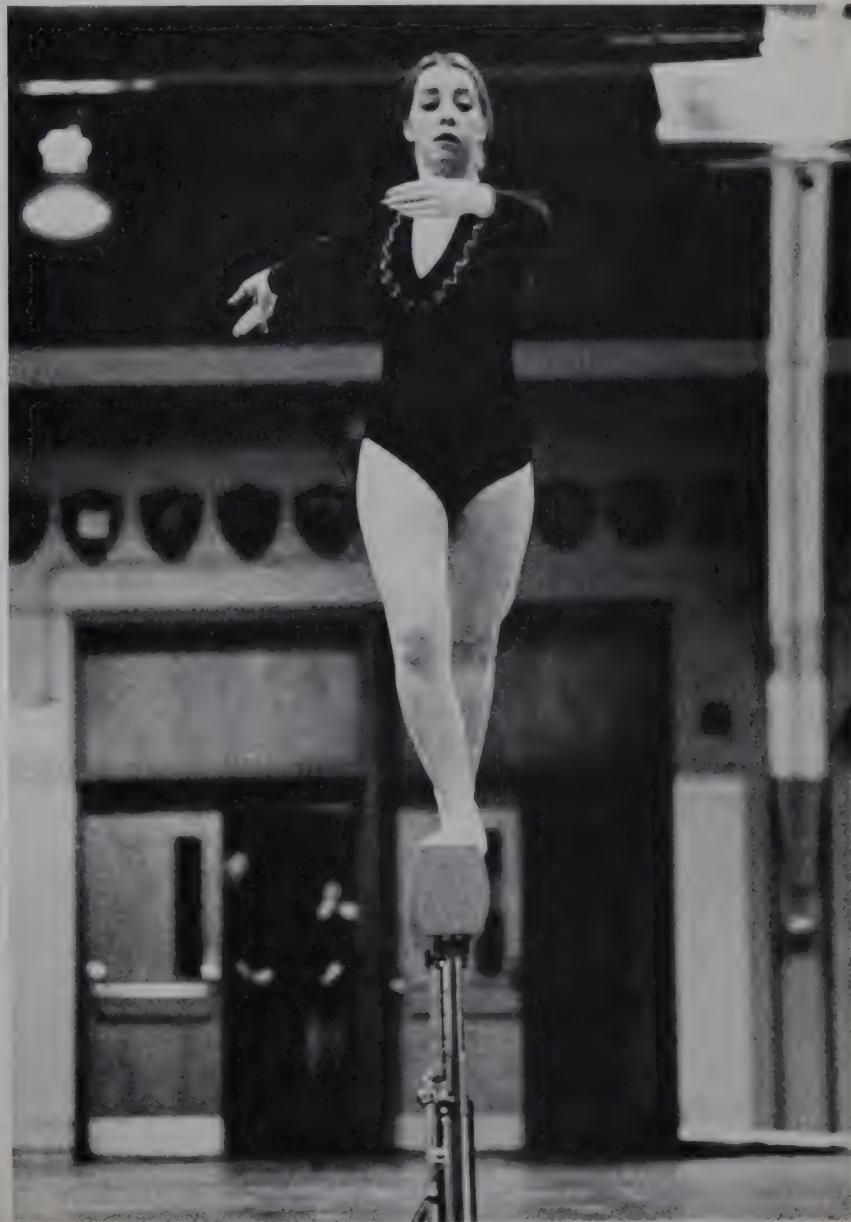
The School's activities and facilities are designed to handle both short and long-term learning experiences. These range from two or three-day programs for 12,000 elementary and secondary school children during 1974-75, to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers—The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's programs are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops for elementary and secondary school teachers interested in developing proficiencies in teaching environmental concerns, which also earn Montclair State graduate credit. The faculty of the School has organized and developed one-day workshops for community action organizations.

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers of physical education and health was incorporated into Montclair State College and became

known as the Panzer School of Physical Education and Health at Montclair State College. The College became the custodian and depository of Panzer College records.

With the establishment of the School of Professional Arts and Sciences in 1970, the title Panzer School Council was adopted, reflecting the change in organizational emphasis. Council membership consists of the Chairman of Physical Education, the Chairman of Health Professions, and the Director of Recreation Professions. The Panzer School Council represents the shared interests of the faculties of the departments involved and coordinates their pertinent and related curricular and co-curricular activities. A major portion of the Council's efforts are actively and generously supported by the Panzer College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics.



School of Social and Behavioral Sciences

Philip S. Cohen, Dean

Academic Advisors: Gail Feinblom, M.A., Jose Gorin, M.A.,
Carl Snipes, M.A.

The School of Social and Behavioral Sciences was formally approved by the Board of Trustees in the spring of 1969. In February of 1970, with student-faculty planning completed, the School was fully organized into the Departments of Anthropology, Communication Sciences and Disorders, Economics, History, Political Science, Psychology and Sociology.

Each department offers at least one major program leading to the Bachelor of Arts degree. By following a professional sequence, students may obtain a teacher certification in social studies, speech correction and other education fields.

In addition to the well-established courses of study, interdisciplinary programs are encouraged within the School and in conjunction with other schools. Transcultural studies, for example, bring the disciplines of cultural anthropology, geography and history into a new correspondence. A major interdisciplinary focus in the sociology and psychology programs places increasing stress on the humanistic themes in the social and behavioral sciences.

Ongoing examination of curriculum is intended to strengthen current programs and reflect new directions that will prepare students for the careers of the future. By careful planning of free electives and general education requirements, students can complete two majors or, if they wish, combine one major with a minor in another area. Minor programs, emphasizing the applied aspects of the disciplines are offered by most of the departments within the School.

The cultural and social laboratory of the New York-Newark-Paterson region and our affiliation with schools, hospitals, clinics, municipalities, planning boards and social service agencies in urban and suburban environments provide numerous opportunities for invaluable externship training in the social and behavioral sciences. The School also provides on-campus clinical experiences through the Communication Disorders Center and the Psychoeducational Center.

In its brief history, the School of Social and Behavioral Sciences has established a unique identity based on diversity within a unified, organic whole. Out of its broad spectrum of departments and programs has been effected a structure which embraces a variety of methods, content and organization each bearing a special relationship to the other.

Social Studies Teacher Education

Students who desire teacher certification in the social studies must follow the professional sequence including the special methods course:

0899 0401 Methods of Teaching Social Studies

Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics. 3 s.l.

The social studies teacher is expected to have a broad understanding of the environmental and cultural factors which shape the individual and his/her society. To meet the approved program for certification in social studies, course work is required in each of the following fields: anthropology, economics, geography, history, political science and sociology. A more detailed description of requirements is available in the office of the school counselor.

Department of Anthropology

Professor: Quintana (Chairman)

Associate Professor: Flint

Assistant Professors: Boylan, Brook, Cinquemani, Franke, Klein

Instructor: Sacks

The programs of the Department of Anthropology address themselves to: learning objectivity by studying other peoples; gaining insight by the studies that others make of us; and achieving

responsibility by applying the results to our rapidly changing, evolving world (M. Mead). A confluence of disciplines, anthropology is defined as the "science of humans." As such, it is concerned with knowledge of human development and behavior from the beginnings of life to the present, and with the ongoing interaction between biological and cultural evolution. It is unique in its holistic and unifying emphasis, participatory methodologies, and historical/comparative focus. All peoples and all aspects of human life constitute the subject matter of its four basic fields: cultural anthropology; archaeology; physical anthropology; and anthropological linguistics. All fields are represented in the department, as well as areal coverage of a wide range of human societies—folk to urban—in virtually all regions of the world.

The major prepares students for advanced work in the discipline, leading to college teaching, museum curatorial work and/or research. Increasingly, the undergraduate major is a prerequisite for admission to graduate programs in anthropology, many of which offer fellowships, scholarships, and teaching assistantships for qualified students.

By providing diversity in departmental offerings, the major also helps prepare students for employment in non-teaching fields—e.g., urban renewal, community service agencies, public health programs, international relations, etc. The departmental apprenticeship program (2202 0402) is designed to provide students with an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. According to interest and background, students are placed in cooperating agencies or museums where they engage in anthropological fieldwork by conducting research and/or special projects.

In addition, majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools where new curriculum trends reflect a rapidly growing demand for anthropological inputs. For the student undecided about career goals, the major provides an excellent liberal arts background about what humans have been, are and can become.

Anthropology Major

Requirements

	Semester Hours
1 2202 0100 Cultural Anthropology	3
1 2202 0101 Physical Anthropology	3
1 2202 0203 Anthropological Linguistics	3
1 2202 0205 Prehistoric Archaeology	3

Electives

select 9 semester hours

1 2202 0301 Peoples of Africa	3
1 2202 0302 Ethnology of Oceania	3
1 2202 0303 Peoples of South America and The Caribbean	3
1 2202 0304 Peoples of the Soviet Union	3
1 2202 0305 The American Indian: Perspectives on Change	3
1 2202 0307 Peoples of Southeast Asia	3
1 2202 0309 Peoples of Middle America	3
1 2202 0310 Cultures of the Middle East	3
1 2202 0311 Anthropology of American Subcultures	3
1 2202 0312 Peasant Culture	3
1 2202 0330 Culture in Transition in India	3
1 2202 0418 Ethnology of African Language and Belief Systems	3
1 2202 0432 Development of Japanese Character and Culture	3
1 2202 0461 Cultural History of Preliterate Societies	3

elect 12 semester hours

1 2202 0200 Urban Anthropology	3
1 2202 0202 Cultural Change and Modernization	3
1 2202 0204 Anthropology of Religion	3
1 2202 0206 Human Variation	3
1 2202 0308 Primate Ethology	3
1 2202 0313 Archaeology of Ancient Middle America	3
1 2202 0401 Seminar in Anthropological Theory	3

1 2202 0405	Psychological Anthropology	
1 2202 0407	Independent Research in Anthropological Theory and Method	
1 2202 0411	Field Methods in Archaeology	
1 2202 0412	Cultural Ecology	
1 2202 0413	Medical Anthropology	
1 2202 0414	Selected Issues in Anthropology	
1 2202 0415	Women in Traditional Society	
1 2202 0416	Anthropology of Human Reproduction	
1 2202 0419	Experimental Archaeology	
1 2202 0420	Apprenticeship in Anthropology	6-1
1 2202 0430	Field Methods in Linguistics	
1 2202 0461	Cultural History of Preliterate Societies	
1 2202 0462	People and Cities	

REQUIRED TOTAL 3

Work in supportive areas—e.g., transcultural studies (including non-Western history and culture geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages—is strongly recommended and should be discussed with major advisors.

Anthropology Course Descriptions

1 2202 0100 Cultural Anthropology

Analysis of transcultural data, basic methodologies, concepts and goals of anthropology, the nature of culture, its role in human experience and its universality. 3 s.l.

1 2202 0101 Physical Anthropology

The Biological basis of human evolution including surveys of human paleontology, primatology and the races of man. The relationship of culture to man's development. Lectures, field trips and the use of fossil and audio-visual materials. 3 s.l.

1 2202 0200 Urban Anthropology

The dynamics of acculturation. Relationships between urban subcultures and the broader urban community values, personality, behaviors and other aspects of the adjustment of people whose lifestyles sets them apart from the dominant society. 3 s.

1 2202 0202 Cultural Change and Modernization

Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture. 3 s.

1 2202 0203 Anthropological Linguistics

Linguistic systems analyzed through informants (speakers) of non-Indo-European languages, and through published data from a variety of AmerIndian and African languages. The relationship of linguistic structure and theory to cultural systems. Individual student field experience, readings and lectures. Cross-listed as 1505 0203 3 s.

Prerequisites: 1 2202 0100, N 1505 0210

1 2202 0204 Anthropology of Religion

Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture. 3 s.

1 2202 0205 Prehistoric Archaeology

The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. 3 s.

1 2202 0206 Human Variation

The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored. 3 s.

I 2202 0301 Peoples of Africa

Diversity in the lifestyles of representative African cultures prehistory, culture change, and contemporary problems in sub-Saharan Africa. 3 s.h.

I 2202 0303 People of South America and the Caribbean

Selected South American and circum-Caribbean cultures. Culture change from prehistoric period to present relationship to contemporary problems. 3 s.h.

I 2202 0304 Peoples of the Soviet Union

Selected ethnic, linguistic and religious identities within the borders of the Soviet Union. Russian influence on culture change among non-Russian peoples. 3 s.h.

I 2202 0305 The American-Indian Perspectives on Change

American-Indian cultures north of Mexico, representative tribes, their world views, and their adaptations to the environment, each other and European contact. 3 s.h.

Prerequisite: I 2202 0100

I 2202 0307 Peoples of Southeast Asia

Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines. Recent socio-cultural processes. 3 s.h.

I 2202 0308 Primate Ethology

The relationship of non-human primate behavior to the origins of human behavior. Consists of two major units (1) The study of lemurs and monkeys and their ecologies (2) The study of the great apes and their societies. 3 s.h.

I 2202 0309 Peoples of Middle America

Mexican and central American groups which show varying degrees of acculturation. Aspects of early post-European contact. Major emphasis current cultural development. 3 s.h.

I 2202 0310 Cultures of the Middle East

The Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of culture and society will be explored in the context of course materials. 3 s.h.

I 2202 0311 Anthropology of American Subcultures

Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture. 3 s.h.

I 2202 0312 Peasant Culture

Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Guest lectures by cultural historians. 3 s.h.

I 2202 0313 Archaeology of Ancient Middle America

The archaeology of ancient cultures of middle America. Consists of two major units (1) northern Mesoamerica, the Gulf Coast, Oaxaca and central Mexican Aztecs, (2) ancient Maya of Mexico and Central America. 3 s.h.

I 2202 0330 Culture in Transition in India

India in its geographical and socio-anthropological setting. The course focuses on the nature and processes bringing about transition in traditional values and social institutions. 3 s.h.

2202 0401 Seminar in Anthropological Theory

The development of anthropological theory during the past 100 years. Various subdisciplines of cultural and social anthropology are explored and applied to similar bodies of data. 3 s.h.

Prerequisite: 6 s.h. in anthropology

2202 0405 Psychological Anthropology (also listed as 2001 0405)

Crosscultural focus on the inter-related nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method.

Students work with bicultural informants.

3 s.h.

Prerequisites: 1 2202 0100, 1 2001 0100 or 1 2001 0101

1 2202 0407 Independent Research in Anthropological Theory and Method

Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.

3 s.h.

Prerequisite: Instructor's permission

1 2202 0411 Archaeological Field Methods

Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.

3 s.h.

Prerequisite: 1 2202 0205 or Instructor's permission

1 2202 0412 Cultural Ecology

The relationships between culture and the bio-physical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures.

3 s.h.

1 2202 0413 Medical Anthropology

Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in the evolution of man.

3 s.h.

Prerequisite: 1 2202 0101 or Instructor's permission

1 2202 0414 Selected Issues in Anthropology

Identification and analysis of contemporary issues and problems in anthropology e.g., conflict and violence models of society, new directions in anthropological inquiry and methodology, etc.

3 s.h.

Prerequisite: 6 s.h. in anthropology

1 2202 0415 Women in Traditional Society

Surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

3 s.h.

1 2202 0416 The Anthropology of Human Reproduction

A biocultural study of pregnancy, childbirth, attitudes toward male and female children, sexual development of the newborn to adolescence, sexual maturity and behaviors and attitudes toward human reproduction.

3 s.h.

1 2202 0418 Ethnology of African Language and Belief Systems

Study of the ways in which language and belief systems are integrated in African culture. Topics discussed will include language problems in contemporary Africa, African folklore and mythology, ideas of ethnicity, etc.

3 s.h.

1 2202 0419 Experimental Archaeology

The course will cover the manufacture, use, preservation, analysis, and cataloging of prehistoric artifacts made of stone, bone, and wood.

3 s.h.

Prerequisite: 1 2202 0205 or 1 2202 0411

1 2202 0420 Apprenticeship in Anthropology

According to interest and preparation, students are placed in cooperating agencies to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological field work by conducting research and/or special projects.

6-12 s.h.

Prerequisites: 24 hours in anthropology, 6 additional hrs. in the School of Social and Behavioral Sciences.

1 2202 0430 Field Methods Linguistics

Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics. Cross-listed as 1505 0430

Prerequisite: 1 2202 0203 or N 1505 0210.

3 s.h.

1 2202 0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contributions of religion and philosophy to defining social values. Cross-listed as 2205 0432.

3 s.h.

1 2202 0461 Cultural History of Preliterate Societies

Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and nondocumentary evidence in reconstructing the culture history of pre- or semi-literate societies.

3 s.h.

Prerequisite: 1 2202 0100 or 5 2205 0102

Department of Communication Sciences and Disorders

Professors: Heiss, Leight, Scholl, Shulman, Woolf

Associate Professors: Attanasio, Balaban, Caracciolo, Schon (Chairman)

Assistant Professors: Barden, Schiff

Instructors: Gonyo, Lindenman

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes initially the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center, in the public schools and at special centers and clinical facilities in the community.

The undergraduate curriculum is designed to prepare students to obtain certification by the New Jersey State Department of Education in speech correction for grades kindergarten through twelve. To that end, students are required to enter the teacher education program described on pages 00 in this catalog.

For most employment in the field of communication disorders, the master's degree is a requirement. On completing the undergraduate curriculum, students pursue graduate study and concentrate in speech pathology, audiology, learning disabilities or teaching the deaf and hearing impaired. The undergraduate and graduate program in communication sciences and disorders prepares the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association.

Communication Sciences and Disorders Major**Requirements****Semester Hours**

2 1220 0100	Fields of Communication Science and Disorders	3
2 1220 0103	Fundamentals of Voice and Speech Production	3
2 1220 0104	Phonetic Study of Speech Sounds	3
2 1220 0200	Techniques in Clinical Observation and Report Writing	3
2 1220 0202	Acquisition of Speech and Language	3
2 1220 0207	Hearing Science	3
2 1220 0208	Anatomy and Physiology of the Speech System	3
2 1220 0209	Voice and Articulation Disorders	3
2 1220 0210	Development of Communication Skills in Children: Methods and Materials	3
2 1220 0410	Neurophysiological Disorders of Communication	3
2 1220 0411	Psychodynamics of Communication Disorders	3
2 1220 0461	Introductory Practicum in Communication Disorders	3
2 1220 0462	Intermediate Practicum in Communication Disorders	3
2 1220 0464	Psychology of Oral Communication	3
2 1220 0468	Clinical Procedures in Audiology	3
2 1220 0469	Problems of the Hearing Impaired	3

2 1220 0473	Organization and Administration of Speech and Hearing Programs	3
2 1220 0483	Language Disorders of Children	3

Majors are urged to take 2001 0320, Psychology of the Handicapped, to complete the state certification requirements.

Additional electives, suitable for the major in communication sciences and disorders, are offered through the Departments of Anthropology, Biology, English, Home Economics, Linguistics, Physics, Psychology and Sociology, and in the School of Education. See catalog listings.

Electives (Speech)

Students are required to select an additional 4 credits of speech electives which should be taken from the following when offered:

2 1220 0412	Diagnosis of Communication Disorders	3
2 1220 0472	Speech Science and Instrumentation	3
2 1220 0484	Seminar in Problems and Issues in Communication Sciences and Disorders	2
2 1220 0463	Advanced Practicum in Communication Disorders	2

Appropriate elective course(s) given in other departments of the College may be substituted for the required speech electives listed above, with the approval of the Department of Communication Science and Disorders.

Majors are urged to take 2001 0320, Psychology of the Handicapped to complete the state certification requirement.

NOTE: *This course fulfills the speech communication requirement.

**This course is taken as part of the teacher education program

Communication Sciences and Disorders

Course Descriptions

2 1220 0100 Fields of Communication Sciences and Disorders

An orientation: Practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties. 3 s.h.

2 1220 0103 Fundamentals of Voice and Speech Production

Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills. 3 s.h.

2 1220 0104 Phonetic Study of Speech Sounds

The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet. 3 s.h.

2 1200 0200 Techniques in Clinical Observation and Report Writing

Observing, describing and reporting the behavior of clients with speech, hearing and language problems: The intake interview and parent conferences. 3 s.h.

Prerequisite: 2 1220 0100

2 1220 0202 Acquisition of Speech and Language

The development of a first language in the child. Acquisition of syntactic, semantic, pragmatic, and phonological systems studied in a cognitive-linguistic framework. 3 s.h.

2 1220 0207 Hearing Science

Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing. 3 s.h.

2 1220 0208 Anatomy and Physiology of the Speech System

The anatomical and physiological bases of respiration, phonation and articulation-resonation. 3 s.h.

2 1220 0209 Voice and Articulation Disorders

Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation. 3 s.h.

2 1220 0210 Development of Communication Skills in Children: Methods and Materials

The development of oral communication skills in children within basic school curriculum. Speech improvement techniques through storytelling, creative dramatics, choral speaking and oral interpretation. Listening activities and content analysis.

3 s.h.

Prerequisites: 2 1220 0104, 4 1220 0202, 4 1220 0209

2 1220 0410 Neurophysiological Disorders of Communication

Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation.

3 s.h.

Prerequisites: 2 1220 0104, 2 1220 0202, 2 1220 0208, 2 1220 0209

2 1220 0411 Psychodynamics of Communication Disorders

Psychological aspects of communication disorders; the nature, diagnosis and treatment of stuttering in children and adults; the nature of counseling and psychotherapy.

3 s.h.

Prerequisite: 2 1220 0104, 0202, 0209 and at least 6 s.h. in Psychology.

2 1220 0461 Introductory Practicum in Communication Disorders

Supervised clinical practice with children and adults presenting a variety of communication disorders.

Prerequisites: 2 1220 0209, 0210, 0410, 0411

3 s.h.

2 1220 0462 Intermediate Practicum in Communication Disorders

Supervised clinical practice with children and adults presenting a variety of communication disorders.

Prerequisite: 2 1220 0209, 0210, 0410, 0411

3 s.h.

2 1220 0464 Psychology of Oral Communication

Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process.

3 s.h.

Prerequisite: Junior standing

2 1220 0465 Seminar in Black Language

Survey of Black language patterns and their relation to standard English in the Black speech community. Application to the goals of the speech therapist in predominantly Black schools. (senior-graduate).

3 s.h.

Prerequisite: Course in Phonetics and Psycholinguistics.

2 1220 0468 Clinical Procedures in Audiology

The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical educational referral. Demonstrations and supervised practice testing.

3 s.h.

Prerequisite: 2 1220 0207

2 1220 0469 Problems of Hearing Impaired

Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement; psychological aspects of hearing loss; interviewing and counseling the parents of the hearing impaired child.

3 s.h.

Prerequisite: 2 1220 0468

2 1220 0472 Speech Science and Instrumentation

Basic acoustics; respiration and voice production; acoustics theory of vowel production; consonant acoustics and speech perception.

3 s.h.

Prerequisites: 2 1220 0104, 2 1220 0208

2 1220 0473 Organization and Administration of Speech and Hearing Programs

Clinical programs in the public schools and other settings. Testing, scheduling, grouping and record-keeping. The role of the clinician in relation to administrators, teachers, specialists in related areas, parents and paraprofessionals.

3 s.h.

Prerequisites: 2 1220 0209, 2 1220 0210, 2 1220 0461

2 1220 0483 Language Disorders of Children

Strategies for the assessment of language disorders and for the development of intervention programs.

Prerequisite: 2 1220 0202

3 s.h.

Department of Economics

Professor: Desai (Chairman), Kronish, Reilly-Petrone

Assistant Professors: Flint, Guria, Scher

Instructors: O'Neill, Sisik-Leveen, Husbands

A major in economics permits students to specialize in a body of knowledge that is increasingly complex, systematically formulated and operationally significant. The latter refers to the increasing utilization of the skill and competence of the economist not only in the academic world but also in the world of federal, state and local government and in industry and labor organizations.

Economics Major

Requirements*

	Semester Hours
3 2204 0101 Principles of Economics (Macroeconomics)	3
3 2204 0102 Principles of Economics (Microeconomics)	3
3 2204 0203 Economic Statistics	3
3 2204 0305 Intermediate Macroeconomic Analysis	3
3 2204 0307 Intermediate Microeconomic Analysis	3
	REQUIRED TOTAL
	15

*A student majoring in economics must choose 18 semester hours from the list of electives in his specialization. In addition, Math 111-112 or Calculus A is recommended for majors. Prerequisites can be waived with permission of instructor or department head.

Electives

3 2204 0204 Labor Economics	3
3 2204 0205 Collective Bargaining: Theory and Practice	3
3 2204 0213 Economic History of the U.S.	3
3 2204 0222 Economic History of Europe	3
3 2204 0300 World Resources and Industries	3
3 2204 0301 Money and Banking	3
3 2204 0302 Financial Institutions and Policy	3
3 2204 0303 Economic Growth and Development	3
3 2204 0304 Public Policies Toward Business	3
3 2204 0306 Managerial Economics	3
3 2204 0308 Public Finance	3
3 2204 0310 Urban and Regional Economics	3
3 2204 0402 International Economics	3
3 2204 0403 Comparative Economic Systems	3
3 2204 0405 Collective Bargaining in the Public Sector	3
3 2204 0407 Economics of Industrial Organization	3
3 2204 0414 Development of Economic Thought	3
3 2204 0415 The Economics of Social Problems	3
3 2204 0417 Mathematical Economics	3
3 2204 0418 Economics of Human Resources	3
3 2204 0420 Econometrics	3
3 2204 0461 Seminar in International Economic Geography	3

select six semester hours

3 2204 0250 Selected Topics in Economics	3
3 2204 0397, 0398 Independent Study	3 ea.
3 2204 0438 Seminar in Advanced Economics	3
3 2204 0497, 0498 Economics Independent Study	3

**Not every elective is given every year.

Minor in Economics

The department maintains a minor program for all majors at the College. It involves the completion of 18 semester hour credits from the departmental offerings, 6 of which should be

Principles of Economics-Micro and Principles of Economics-Macro. See department chairman or any member of the department for details.

Economics Course Descriptions

3 2204 0100 Introduction to Economics

Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, Government and business relations. 3 s.h.

3 2204 0101 Principles of Economics, Macro

A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment level of national income and long term growth. 3 s.h.

3 2204 0102 Principles of Economics, Micro

Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production. 3 s.h.

3 2204 0203 Economic Statistics

Basic elements of economics statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques. 3 s.h.

3 2204 0204 Labor Economics

The determinants of wages in the organized and unorganized markets; an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas; an examination of current issues in labor relations. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0205 Collective Bargaining Theory and Practice

The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. 3 s.h.

Prerequisites: 3 2204 0102, 3 2204 0101, work in field

2204 0213 Economic History of US

Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes. 3 s.h.

2204 0222 Economic History of Europe

the economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries. 3 s.h.

2204 0250 Selected Topics in Economics

An in-depth study of a particular theoretical or applied area of economics.

3 s.h.

Prerequisites: Vary with topics, work in field.

2204 0300 World Resources and Industries

Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. 3 s.h.

2204 0301 Money and Banking

An analysis of the economic role of money and credit in our economy with primary emphasis on Federal Reserve and treasury operations. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

2204 0302 Financial Institutions

The structure and operation of financial institutions, their role in the economy and in the money and

capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
 Prerequisite: 3 2204 0102 or 3 2204 0101 3 s.h.

3 2204 0303 Economic Growth and Development

Problems of hastening the growth of countries with low incomes per person; the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0304 Public Policies Toward Business

The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting. 3 s.h.

Prerequisite: 3 2204 0102, Instructor's permission

3 2204 0305 Intermediate Macroeconomic Analysis

The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0306 Managerial Economics

The application of economic theory in the decision-making processes of the firm; utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions. 3 s.h.

Prerequisites: 3 2204 0203 or 3 2204 0102, 3 2204 0101

3 2204 0307 Intermediate Microeconomic Analysis

The basic determinants of market demand. Input-output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 s.h.

3 2204 0308 Public Finance

The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0310 Urban and Regional Economics

The underlying economic forces operating in the urban economy; development of urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area and the public sector of the urban economy. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0312 Business Cycles Forecasting

Fluctuations in economic activity which characterize modern industrial economies. Definitions descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity. 3 s.h.

Prerequisite: 3 2204 0102 or 3 2204 0101

3 2204 0398 Economic Independent Study

Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the Economics Department guides the student in his/her research and reading. 3 s.h.

3 2204 0402 International Economics

The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.

Prerequisite: 3 2204 0101 or 3 2204 0102

3 s.h.

3 2204 0403 Comparative Economic Systems

The economics systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, the Scandinavian Countries and the United States. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102 or 3 2204 0100

3 2204 0405 Collective Bargaining in the Public Sector

Course will analyze the sources of growth of collective bargaining in the public sector; examine processes utilized by the parties and evaluate the impact of collective bargaining. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102

3 2204 0407 Economics of Industrial Organization

The causes and effects of structure, size and concentration on competition and market prices. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102

3 2204 0414 Development of Economic Thought

Broadening and improving the command of modern economic theory by examining the outstanding contributions to economic thought over the past two centuries. 3 s.h.

3 2204 0415 The Economics of Social Problems

The extent, causes and consequences of poverty, inequality, and insecurity. An appraisal of reforms; social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity. 3 s.h.

3 2204 0417 Mathematical Economics

Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102 or 3 2204 0203

3 2204 0418 Economics of Human Resources

Analysis of the role of human resources in the economic process. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102 or 3 2204 0414

3 2204 0420 Econometrics

An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data. 3 s.h.

Prerequisite: 3 2204 0203, CRS in similar field

3 2204 0438 Advanced Seminar in Economics

A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation. 3 s.h.

Prerequisite: 8 s.h. in Economics and permission of Instructor.

3 2204 0461 Seminar in International Economic Geography

An interdisciplinary seminar focusing the techniques of economics and geography on a common theme, hopefully resulting in a synergistic conclusion. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102

3 2204 0497 Economics Independent Study

Open to students who wish to undertake reading and/or research in specialized areas of economics.

Permission of the department chairman must be secured.

Prerequisite: 3 2204 0497, 3 2204 0498, Instructor's permission 3 s.h.

Department of Environmental, Urban and Geographic Studies

Associate Professors: Boucher (Chairman), Robertson, Sternberg, Taylor

Assistant Professors: Ballwanz, Hinshalwood, Rentsch, Singh

Environmental Studies

Environmental studies is concerned with the systematic understanding of environmental factors related to life. On the one hand there are the physical factors of water, air and land and on the other hand there are the facts of society, technology and behavior. These physical and cultural factors must be understood in terms of their impact upon life and in terms of their relationship to each other.

Students at Montclair State College can develop their own environmental program by completing the three course requirements for a major in geography-urban studies and by selecting courses in this and allied departments. Departmental advisors are available to help students develop the best program

according to their needs and interests.

Upon completion of the program graduates have two options: graduate work leading to an M.S. or an M.A. degree; or, mid-management positions as environmental planners. There are career possibilities in state, county and local governments, private consulting firms, in outdoor education and nature centers, and in publishing and the media.

Urban Studies

The transformation of rural land into urban land and the dynamic movement of the world's population into cities constitutes one of the most profound revolutions of our times. Today, most people live and work in cities or metropolitan areas and face similar problems regardless of cultural or nationalistic perspectives. The key issues of the contemporary world are urban issues such as housing, pollution, social services, transportation, services to the aged, governmental reorganization, traffic congestion, mental health and urban decay. Urban Studies focuses on the problems which face urban society and prepares students with the technical skills and knowledge necessary to fully comprehend urban growth and development and its social, cultural, political, economic and environmental consequences.

Program in Urban Studies

The Urban Studies program at Montclair State College is both interdisciplinary and multi-disciplinary. Students from all academic areas of the college can participate in the program.

A major feature of the program is the full semester off-campus internship where students will be placed in a public or private agency in an urban setting. Students will be placed in agencies according to their particular needs and interests. The Urban Studies program at MSC has already placed numerous graduates in agencies in New York-New Jersey, ranging from mental health, planning, private research firms, housing, transportation, gerontology, to selected social services.

Students may major in geography-urban studies or in geography. It is possible for students majoring in other disciplines to elect a second major in geography-urban studies or to follow a minor program.

Geography

Geography is the study of all natural and cultural elements found on the surface of the earth. Though individual phenomena are studied in detail by one or another of the academic disciplines, geography undertakes the unique task of studying spatial relationships.

In an attempt to understand the interrelationships of things in space, a view is fostered which integrates the natural, physical and social sciences. Thus the unity of knowledge, necessarily destroyed by the systematic sciences concerned with parts of the whole, is to a high degree restored in geography, and a broad scholarship is achieved.

The major in geography is designed to give the student a solid background and training for many career choices: teaching, planning, industry, government, environmental studies, etc.

Geography-Urban Studies Major

Requirements

	Semester Hours
4 2206 0100 Principles of Geography or	3
4 2206 0101 Introduction to Cultural Geography	3
4 2206 0206 Introduction to American Urban Studies	3
4 2206 0309 Research Methods in Geography and Urban Studies or	3
4 2206 0310 Quantitative Methods in Geography and Urban Studies	3

Electives

At least 24 semester hours including the internship and senior seminar. See electives listed below marked with an*.

Urban Studies Minor

Requirements

4 2206 0206 Introduction to American Urban Studies	3
4 2206 0461 People and Cities: Comparative Urban Studies	3

4 2206 0463	Internship in Urban Studies	12
4 2206 0464	Senior Seminar in Urban Studies	3
	REQUIRED TOTAL.	21

Geography Major

Requirements

4 2206 0100	Principles of Geography	3
4 2206 0101	Introduction to Cultural Geography	3
4 2206 0309	Research Methods in Geography and Urban Studies or	
4 2206 0310	Quantitative Methods in Geography	3

Electives in Geography and Urban Studies

4 2206 0109	Man and His Environment	3
4 2206 0201	Climatology	3
4 2206 0202	Geography and Anglo-America*	3
4 2206 0203	Our Finite Earth: Population and Resources	3
4 2206 0204	Principles of Land Use*	3
4 2206 0206	Introduction to American Urban Studies	3
4 2206 0209	American Cityscape: Urban Form and Architecture*	3
4 2206 0225	Environmental Geoscience	3
T 1914		
4 2206 0251	Aerial Photograph Interpretation*	3
T 1914		
4 2206 0252	Hydrology	3
4 2206 0300	World Resources and Industries*	3
4 2206 0301	Urban Field Studies	3
4 2206 0303	Field Geography*	3
4 2206 0304	Geography of Europe	3
4 2206 0305	Geography of East and Southeast Asia	3
4 2206 0306	Geography of South Asia	3
4 2206 0308	Land and Life in Latin America	3
4 2206 0310	Quantitative Methods in Geography	3
4 2206 0311	Geography of Manufacturing*	3
4 2206 0312	Historical Geography of the United States	3
4 2206 0313	Urban Geography*	3
4 2206 0317	Issues of Contemporary Metropolitan America*	3
4 2206 0330	Culture in Transition in India: An Anthropo-geographical Approach	3
4 2206 0331	Urbanization and Environment*	3
4 2206 0352	Fluvial Geography	3
4 2206 0355	World Regional Geomorphology	3
T 1914		
4 2206 0401	Fundamentals of Remote Sensing of Environment	3
4 2206 0404	Geo-Ecology	3
4 2206 0405	Computer Applications in Geography*	3
4 2206 0408	Political Geography	3
4 2206 0409	Urbanization of World Perspective*	3
4 2206 0411	Problems in Urban Geography	3
4 2206 0412	Geography of Sub-Sahara Africa	3
4 2206 0413	Geography of the Middle East	3
4 2206 0421	Population Problems of the World	3
4 2206 0424	Geography of New Jersey*	3
4 2206 0426	Independent Study in Geography	3
4 2206 0427	Pro-Seminar in Geography	3
4 2206 0428	Urban Studies: London and the British New Towns Movement*	3
4 2206 0444	Village to Metropolis: Urbanization in Latin America*	3
4 2206 0452	Geohydrology	3

4 2206 0457	Meteorology	3
4 2206 0456	Hydroclimatology	3
4 2206 0462	People and Cities: Comparative Urban Studies*	3
4 2206 0463	Internship in Urban Studies	12
4 2206 0464	Senior Seminar in Urban Studies	3
	REQUIRED TOTAL	33

Interdisciplinary Programs

The Department of Geography and Urban Studies participates in several interdisciplinary programs: transcultural studies, Latin American studies and Asian studies. It is possible for a major in the department to design a career program in a number of professional fields.

Recommended courses for regional planning

4 2206 0202	Geography of Anglo-America	3
4 2206 0204	Principles of Land Use	3
4 2206 0206	Introduction to Urban Studies	3
4 2206 0251	Aerial Photograph Interpretation	3
4 2206 0252	Hydrology	3
4 2206 0311	World Resources and Industries	3
4 2206 0317	Issues of Contemporary Metropolitan America	3

Recommended Courses for students interested in the field of international tourism

4 2206 0201	Climatology	3
4 2206 0206	Introduction to Urban Studies	3
4 2206 0251	Aerial Photograph Interpretation	3
4 2206 0300	World Resources and Industries	3
4 2206 0310	Quantitative Methods in Geography and Urban Studies	3
4 2206 0409	Urbanization in World Perspective	3
4 2206 0462	People and Cities	3
	(Appropriate regional courses of the world.)	

Recommended Courses for Careers in Government

4 2206 0302	World Resources and Industries	3
4 2206 0408	Political Geography	3
4 2206 0409	Urbanization in World Perspective	3
4 2206 0421	Population Problems of the World	3
4 2206 0462	People and Cities	3
	(Also selected regional courses of the world)	

Recommended Courses for Graduate Studies in Geography

4 2206 0201	Climatology	3
T 1914 0250	Map Interpretation and Cartography	3
4 2206 0309	Research Methods in Geography and Urban Studies	3
4 2206 0310	Quantitative Methods in Geography	3
4 2206 0313	Urban Geography	3
4 2206 0408	Political Geography	3

Recommended Courses for Careers in Environmental Studies

4 2206 0109	Man and His Environment	3
4 2206 0201	Climatology	3
4 2206 0205	Environmental Geosciences	3
4 2206 0252	Hydrology	3
4 2206 0303	Field Geography	3
4 2206 0310	Quantitative Methods in Geography and Urban Studies	3
4 2206 0331	Urbanization and Environment	3
4 2206 0352	Fluvial Geography	3
4 2206 0404	Geo-Ecology	3
4 2206 0421	Population Problems of the World	3
4 2206 0452	Geo-Hydrology	3
4 2206 0456	Hydroclimatology	3

Geography and Urban Studies Course Descriptions

4 2202 0100 Principles of Geography

The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution; mapping techniques and map interpretation. 3 s.h.

4 2206 0101 Introduction to Cultural Geography

Concepts of cultural geography including culture, health, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groups as categories of thought patterns and institutions that unite or separate human groups. 3 s.h.

4 2206 0109 Man and His Environment (Also listed as 2001 0109)

An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view of it, and his changes in it, and future human and environmental projections. 3 s.h.

4 2206 0201 Climatology

Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge and climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climatic environment. 3 s.h.

4 2206 0202 Geography of Anglo-America

Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change: urbanization, industrial growth, transportation, trade patterns, population distribution and modern agriculture. 3 s.h.

4 2206 0203 Our Finite Earth: Population and Resources

Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternative ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources. 3 s.h.

4 2206 0204 Principles of Land Use

Geographical analysis of rural and urban land use patterns in the United States and in the world. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area. 3 s.h.

4 2206 0206 Introduction to American Urban Studies

An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and radical and reform responses to critical urban issues will be explored. 3 s.h.

4 2206 0209 American Cityscape: Urban Form and Architecture

The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment; cultural values and changing urban forms; and new town design. 3 s.h.

4 2206 0222 The Geography of Life and Death

Study of medical geography of diseases of man, their relationship to physical setting. Factors such as climate, soils, water, nutrition and sanitation in relation to diseases will be analyzed worldwide. Human diseases also examined. National, regional, and local geographic conditions. 3 s.h.

4 2206 0252 Hydrology (also listed as T 1914 0252)

Water, its availability, distribution and usefulness. Hydrology cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. 3 s.h.

4 2206 0301 Urban Field Studies

Off-campus study of urban conditions in New York-New Jersey metropolitan area: housing, mass

transportation, social pathologies, inner city economics and the role of planning. On-campus discussion sessions alternate with field trips. 3 s.h.

4 2206 0303 Field Geography

Geographic analysis of local region. Uses of reconnaissance and survey, interviews, maps and ground and aerial photographs in information gathering. Requires individual area study. 3 s.h.

4 2206 0304 Geography of Europe

The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies. 3 s.h.

4 2206 0305 Geography of East and Southeast Asia

Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia); the physical and cultural landscape and the problems of economic development. 3 s.h.

4 2202 0306 Geography of South Asia

Political, cultural and economic study of India, Pakistan and Bangladesh; interrelationship between cultural and physical aspects of the regional landscape. 3 s.h.

4 2206 0308 Land and Life in Latin America

Human use of local resources and the changes in the spatial arrangement of social and economic systems affected by resource modification. 3 s.h.

4 2206 0309 Research Methods in Geography and Urban Studies

Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material. 3 s.h.

4 2206 0310 Quantitative Methods in Geography and Urban Studies

Treatment of measurements and design in geography; definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation. 3 s.h.

4 2206 0311 Geography of Manufacturing

The world's manufacturing activities; measurement techniques; analysis of the economic, cultural and geographic bases in industrialization; plant location problems and the special situation of under-developed nations. 3 s.h.

Prerequisite: 4 2206 0300

4 2206 0312 Historical Geography of the United States (also listed as 5 2205 0312)

The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800. The rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. 3 s.h.

4 2206 0313 Urban Geography

Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial, and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems. 3 s.h.

4 2206 0314 Location of Economic Activity

Organization of economic activity past and present refined with changes of more complex economic systems. Location factors such as physical and human resources, accessibility, routing, services, industrial sites and market advantages analyzed under varied conditions in different economic systems. 3 s.h.

4 2206 0317 Issues of Contemporary Metropolitan America

An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political, and economic issues. 3 s.h.

4 2206 0330 Culture in Transition in India: An Anthropological-Geographical Approach

India in its geographical and socio-anthropological setting. The course focuses on the nature and processes bringing about transition in traditional values and social institutions. (Also listed as 1 2202 0330) 3 s.h.

4 2206 0331 Urbanization and Environment

Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards. 3 s.h.

4 2206 0352 Fluvial Geography (also listed as T 1914 0352)

Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams and stream channels; processes, quantitative techniques. 3 s.h.

4 2206 0401 Fundamentals of Remote Sensing of Environment

Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. 3 s.h.

Prerequisite: 9 s.h. of geography

4 2206 0404 Geo-Ecology

Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e. soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution within the ecosystem. 3 s.h.

4 2206 0405 Computer Applications in Geography and Urban Studies

Theory and practice using a digital computer to solve problems encountered in geography; Fortran IV, computer solution of regressions, and SYMAP (computer mapping). 3 s.h.

4 2206 0408 Political Geography

Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations. 3 s.h.

4 2206 0409 Urbanization in World Perspective

Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in third world. 3 s.h.

4 2206 0411 Problems in Urban Geography

Seminar on the application of geographic concepts and theories to the analysis of urban problems. Field or library research projects by students on specific urban problems. 3 s.h.

4 2206 0412 Geography of Sub-Sahara Africa

Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. 3 s.h.

4 2206 0413 Geography of the Middle East

Topical study of area extending from Morocco to Iran: arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes. 3 s.h.

4 2206 0419 Geography of the Soviet Union

Topical and regional analysis. Emphasizes demographic-ethnic composition of Soviet people, physical resource base, interregional relationships, and spatial effects of state planning programs. 3 s.h.

4 2206 0421 Population Problems of the World

Identification, description and analysis of the present-day distributional patterns of the world's people; demographic trends, man-land ratios, mobility, migration and socio-economics and geographic forces affecting world population. Techniques for measurement and analysis. 3 s.h.

4 2206 0423 Culture and Resource Utilization

Evaluation and utilization of resources. Examines changes of characteristics of physical resources in relation to technological and cultural change, population increases, resource depletion and accelerated redundancy of man. 3 s.h.

4 2206 0424 Geography of New Jersey

Demographic and economic organization of the state. Spatial contrasts in population density; suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey. 3 s.h.

4 2206 0426 Independent Study in Geography

Preparation of a research paper or project to be presented to members of the staff.

3 s.h.

4 2206 0427 Pro-Seminar in Geography

Problem-oriented seminar: specific topics in regional, cultural, physical, economic, political or historical geography. Content changes according to the needs of the instructor.

3 s.h.

4 2206 0428 Urban Studies: London and the British New Towns Movement

An in-the-field study of London and the New Towns movement in the greater London metropolitan region. Students will meet with officials and planners in such agencies as the Department of Environment, New Towns Association, and borough government and study planning and design of New Towns and greenbelts; contrasting social, political, economic, cultural and life styles of central city London and surrounding New Towns and urban redevelopment in central London.

3 s.h.

4 2206 0444 Village to Metropolis: Urbanization in Latin America

Examines urbanization in Latin America from Columbian times to the present. Portuguese and Spanish town planning practices and their evolution into modern times, including their impacts upon evolving urban morphology and subsequent metropolitanization.

3 s.h.

4 2206 0452 Geohydrology (also listed as T 1914 0452)

Ground water study: migration, chemistry and relation to the environment. Darcy's law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes.

3 s.h.

4 2206 0456 Hydroclimatology (also listed as T 1914 0456)

Climatology emphasizing moisture as one of the fundamental factors in climatic analysis; processes and problems of classification and variability. Examines energy and water balance.

3 s.h.

4 2206 0461 Seminar in International Economic Geography (also listed as 3 2204 0461)

An interdisciplinary seminar focusing the techniques of economics and geography on a common theme to achieve a synergistic conclusion.

3 s.h.

Prerequisites: Junior standing and one course in geography and 3 2204 0101 and 3 2204 0102.

4 2206 0462 People and Cities: Comparative Urban Studies (also listed as 2202 0462 and 2205 0462)

Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world.

3 s.h.

4 2206 0463 Internship in Urban Studies

A full semester internship in an urban agency. Students will be expected to carry out agency assignments, observe and participate in decision-making processes and engage in middle management activities. Limited to seniors.

12 s.h.

Prerequisites: 4 2206 0206, 4 2206 0462, 1 2202 0462

4 2206 0464 Senior Seminar (Urban Studies Internship)

A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.

3 s.h.

Prerequisites: 4 2206 0206, 4 2206 0462

Environmental Studies

Course Description

Please note that some of these courses are offered at the New Jersey School of Conservation. Consult the department for further information.

4 0843 0495 Workshop on Utilizing Natural Environments

To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of, as well as skills in, the techniques of incorporating the physical, biological, and socio-cultural components of the

environment in their curricula; emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging between 15 and 20 specific subject areas.

1 s.h.

4 0843 0496 Field Study in Humanities and Natural Science

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

1 s.h.

Prerequisite: Restricted to in-service classroom teachers.

4 0843 0497 Field Studies in Social Studies and Outdoor Recreation

Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

1 s.h.

Prerequisite: Restricted to in-service classroom teachers.

Department of History

Professors: Barker (Chairman), Beckwith, Cohen, More, Royer

Associate Professors: Keenen, Kops, Macaluso, Moore, Olenik, Pastor, Schwartz, Zimmer

Assistant Professors: Bell, Bretherton, Mwangi, Wa-Githumo, Wyatt

Instructor: Srebnick

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their program to meet certification requirements for teaching social studies in New Jersey secondary schools.

History Major

Requirements		Semester Hours
5 2205 0100	The Study of American History	3
5 2205 0101	The Study of European History or	3
5 2205 0102	The Study of Non-Western History	3
Minimum Concentration in American, Latin-American, European or Asian History		12
History Electives		15
	REQUIRED TOTAL	33

A minimum concentration of twelve semester hours is required in American, Latin American, European or Asian history. A special requirement is six semester hours in the study of history, 5 2205 0100 and either 0101 or 0102. These courses are designed to investigate the basic nature and methods of history and to help introduce students to opportunities and problems of research in the main fields of history. Work in supportive areas—e.g., anthropology, art history, economics, English or foreign literature, geography, philosophy and religion, political science, psychology, sociology, transcultural or urban studies—should be discussed with departmental faculty advisors.

History Course Descriptions

5 2205 0100 The Study of American History

The nature of historical research and reasoning; student experience in working with actual historical materials and procedures.

3 s.h.

5 2205 0101 The Study of European History

European history as a field of study and research. Basic historical concepts and generalizations related to the data of European history. 3 s.h.

5 2205 0102 The Study of Non-Western History

Problems of the researcher in Asian history; sources of cultural history, including works of philosophy, literature, history and anthropology. 3 s.h.

5 2205 0103 Foundation of Western Civilization

Origins and development of Western civilization to about 1350; Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions. 3 s.h.

5 2205 0104 Intro to Historical Thinking

History examined as a mode of inquiry. Emphasis on student experience working with history materials, procedures and problems. 3 s.h.

5 2205 0105 Development of Western Civilization to 1815

A study of the history of Europe from the end of the Middle Ages to the Congress of Vienna; the Renaissance and Reformation; the rise of new monarchies, Tudor and Stuart, England; the scientific revolution; the enlightenment; the French Revolution and Napoleon. 3 s.h.

5 2205 0106 Development of Western Civilization Since 1815

History of Europe from the Congress of Vienna to the present; the industrial revolution; rise of liberalism, nationalism and socialism; unification of Italy and Germany; World War I and II; Post-1945 Europe. 3 s.h.

5 2205 0108 Development of African Civilization

Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environment systems of the period. 3 s.h.

5 2205 0109 Development of Islamic Civilization

Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments are considered within the context of specific historical periods. 3 s.h.

5 2205 0110 Development of American Civilization

The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made the U.S. distinctive. 3 s.h.

5 2205 0111 Contemporary American Issues in Historical Perspective

Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society. 3 s.h.

5 2205 0114 Early Latin American Civilization

Deals with the components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Ican, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence. 3 s.h.

5 2205 0115 History of Puerto Rico

The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States. 3 s.h.

5 2205 0116 Modern Latin-American Civilization

Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economical independence. 3 s.h.

5 2205 0131 Development of Indian Civilization

The early history of India, 3000 B.C. to 1000 A.D.; principal religions, political and literary works, and their insights into Indian social values and institutions. 3 s.h.

5 2205 0132 Classical Chinese Civilization

The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and meta-physical-philosophic works, corresponding values and institutions. 3 s.h.

5 2205 0133 Modern Chinese Civilization

Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works. 3 s.h.

5 2205 0201 Europe in World History

European history in a global setting. The formation of a distinctive European civilization, its expansion overseas, and encounters with other world civilizations and cultures, A.D. 500-1914. 3 s.h.

5 2205 0204 The Second World War

The cultural and psychological impact of total war, the introduction of total mobilization and the application of management science to the conduct of war. 3 s.h.

5 2205 0205 Minorities in American History

A study of the historical background of the various ethnic, racial and religious minorities in contemporary American society. 3 s.h.

5 2205 0210 Selected Topics—American History to 1876

Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction. 3 s.h.

5 2205 0211 Selected Topics—American History Since 1876

Issues and problems in the development of the American nation from the Civil War to the present. 3 s.h.

5 2205 0212 Social History of the United States

Social and cultural aspects of American history, population movements, rural and urban problems, status of women, utopian ventures, mass media, recreation, human rights. 3 s.h.

5 2205 0213 Economic History of the United States (also listed as 2204 0213)

Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present, factors of economic growth. 3 s.h.

Prerequisite: 3 2204 0101 or 3 2204 0102 or 3 2204 0200

5 2205 0214 Diplomatic History of the U.S.

Evolution of American Foreign Policy and Diplomacy from the revolution to the present. Selected basic readings in the field. 3 s.h.

5 2205 0215 Women in American History

The changing role and status of women in American society from colonial times to the present.

3 s.h.

5 2205 0217 History of Black Americans

Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to mid-20th century. 3 s.h.

Prerequisite: Instructor's permission

5 2205 0218 Political History of the U.S.

The historical development of American political institutions from the early 1700s to the present. Course focuses upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders. 3 s.h.

5 2205 0219 Sport in History

This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world. 3 s.h.

2205 0221 Europe's Conquest of the Americas, 1415-1763

A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe; institutions, ideas, traditions, technologies and resulting confrontations with and impact on native American peoples. 3 s.h.

5 2205 0222 Economic History of Europe (also listed as 2204 0222)

European economic development from the middle ages to the present. Emphasis on the first industrial revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia.

3 s.h.

5 2205 0281 Greek Civilization (also listed as 4903 0281)

Greece's contribution to western civilization is studied through her architecture, art, literature, and sculpture.

3 s.h.

5 2205 0282 Roman Civilization

Rome's assimilation of Etruscan, Greek, and Oriental cultures in the process of creating her own. The planting of Roman culture and civilization along the route of the Roman army; monuments and relics as testimony to the Roman penetration and influence.

3 s.h.

5 2205 0309 Feminist Ideas in Western Thought

History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original text of writers, Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

3 s.h.

5 2205 0310 Immigrant in American History

The processes by which the immigrant was incorporated into American society. Includes the cultural backgrounds from which the different groups came; the reasons for emigration; the nature of the communities they created once they reached the U.S. Their religious and social institutions; the problems of maintaining ethnic culture with the pressure to Americanize.

3 s.h.

5 2205 0311 Early History of New Jersey 1702-89

From Royal colony to the establishment of the federal government under the constitution. State and local events during the American revolution.

3 s.h.

5 2205 0312 Historical Geography of U.S.

The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800.

3 s.h.

5 2205 0313 Biography in American History

The significant biographical materials available in the study of American history; the problems and uses of biography.

3 s.h.

5 2205 0315 War in History

Course examines selected wars in history of the world in an attempt to learn about causes and consequences of war. It will consider attempts to prevent war in the past, and proposed methods for preventing war in the future.

3 s.h.

5 2205 0319 American Urban History to 1880

The urban dimension in American history and development of city life to 1880. Shapers of the 19th century city. Instability and disorders due to transit and demographic revolutions.

3 s.h.

Prerequisite: 5 2205 0210 or CRS in similar field

5 2205 0320 American Urban History Since 1880

Transformation of the 19th century industrial city into the 20th century metropolis; the emergence of the New York Metropolitan region.

3 s.h.

Prerequisite: 5 2205 0211 or CRS in similar field

5 2205 0321 History of the American Worker since 1877

History of the American worker rather than his trade union; the worker's legal status, political behavior, social and cultural activities, treatment by employer and state.

3 s.h.

Prerequisite: CRS in similar field

5 2205 0322 Medieval European Civilization—450-1350

Origins, development, and significance of a civilization whose political, social and cultural foundation had a spiritual basis and unity.

3 s.h.

5 2205 0323 History of Russia to 1917

Factors shaping the Russian people: Byzantium and Greek Orthodox faith. Tartar state organization, the Mir, westernization from Peter to Lenin, intellectual and radical movements. 3 s.h.

5 2205 0324 Russia since 1917

Political, social, economic and intellectual developments in the Soviet Union; the relationship of ideology and national goals. 3 s.h.

5 2205 0327 History of France since 1789

Political, social, economic and intellectual developments in France since the revolution. 3 s.h.

5 2205 0328 Conflict in Modern Ireland

A history of Irish nationalism with emphasis on the period from 1782 to the present. 3 s.h.

5 2205 0329 History of England to 1714

Emphasis on political and constitutional history, the formation of basic institutions of law and government related economic, social and cultural factors. 3 s.h.

5 2205 0330 Chinese Social History through Literature

Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values. 3 s.h.

5 2205 0331 History of England 1714-1914

Political, social and economic history from the Hanoverian succession to the 20th century; Industrial Revolution; changing balance of the constitution; British imperialism; the Irish question. 3 s.h.

5 2205 0332 Revolutions in Latin American History

To examine and compare the causes, course and consequences of three major social revolutions in Latin America Mexico (1910), Bolivia (1952), Cuba (1959). The impact of these revolutions upon present-day Latin American domestic developments and international relations will also be evaluated. 3 s.h.

5 2205 0333 History of Brazil

Traces the historical development from the pre-historical Indian cultures to the 1970s; covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation. 3 s.h.

5 2205 0335 Communist Revolution in China

Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies. 3 s.h.

5 2205 0336 Emergence of African Nationalism

Factors contributing to the development of African Nationalism, 1900-1960. 3 s.h.

5 2205 0408 Independent Study in European History

To provide opportunity for capable students, mainly History majors, to do independent work in the field of European History. 3 s.h.

Prerequisite: Majors only

5 2205 0409 Independent Study in Non-Western History

To provide opportunity for capable students, mainly in History or Transcultural Studies majors, to do independent work in the field of non-Western history. 3 s.h.

5 2205 0410 Independent Study in American History

To do independent work in the field 3 s.h.

5 2205 0411 Intellectual History of U.S.

Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices. 3 s.h.

Prerequisite: Nine semester hours in American History or permission of instructor.

2205 0413 The Philosophy of History

Development of historical thought and the writing of history in the Western world from Herodotus to the present. 3 s.h.

5 2205 0416 Church and State in Latin America

The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.

3 s.h

5 2205 0419 Age of Renaissance—1350-1517

Political, economic, social and broad cultural developments in Italy and Western Europe during 1350-1517.

3 s.h

5 2205 0420 The Reformation Era—1500-1650

Religious movements of the 16th and 17th centuries; their medieval antecedents; the accompanying political, intellectual and socioeconomic forces.

3 s.h

5 2205 0422 Studies in Enlightenment History

Major intellectual developments in 18th century Europe; rise of skepticism, toleration, empiricism, ideas of progress. Reading in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures.

3 s.h

Prerequisite: 5 2205 0201 or CRS in similar field

5 2205 0425 Ideas in European History—Burke to Nietzsche

Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.

3 s.h

Prerequisite: 5 2205 0202 or equivalent background in European History.

5 2205 0426 The Nazi Third Reich

Course outlines major economic, social, political and intellectual developments in 20th century Germany, particularly in demise of Weimar Republic and ascension of Nazi Third Reich, impact of collapse of 1918 and Treaty of Versailles on German culture and society and development of trends in German political thought.

3 s.h

Prerequisite: 5 2205 0326 or 5 2205 0202

5 2205 0431 Development of Indian Character and Culture

The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization. Contributions of religion to social and political values and modern literature.

3 s.h

Prerequisite: 5 2205 0131, 0331.

5 2205 0432 Development of Japanese Character and Culture

The historical conditioning of Japanese behavior. Cultural change in the perspective of tradition periodization of Japanese history. Contributions of religion and philosophy to defining social values.

3 s.h

5 2205 0433 American Colonial History—1607-1763

Developments within the English colonies; interactions between England and the colonists; growth of a distinctive American society.

3 s.h

5 2205 0434 American Revolution and Early Republic—1763-1828

Analysis of events leading to the war for independence; political, economic and foreign problems of the new nation; the growth of nationalism.

3 s.h

5 2205 0435 The Union in Crisis—1820-1877

Significant events and developments of the period, Jacksonian democracy, westward expansion and sectionalism. The Civil War and Reconstruction.

3 s.h

5 2205 0436 America in the Gilded Age

The forces which contributed to the development of modern, industrialized American society and reaction to changes of the period.

3 s.h

5 2205 0437 American Society in 20th Century

The continuing reactions to the problems of an industrialized America; the New Deal and recent Supreme Court decisions.

3 s.h

5 2205 0443 Internship in History

Opportunity for the advanced student to acquire practical experience working directly with primary

sources of history in state and local depositories of historical materials.

3 s.h.

Prerequisites: 21 semester hours, prior course work in history and permission of program coordinator.

5 2205 0460 Independent Transcultural Study

Conducted as an interdisciplinary tutorial course with no formal class meetings, this study program includes directed reading and preparation of written papers on transcultural subjects not offered in the regular curriculum and advanced independent study of subjects with which students have had course experience. Students seeking admission must secure approval of at least two professors representing different fields in the Transcultural Program.

3 s.h.

Prerequisite: 21 semester hours of credit in Transcultural Studies.

5 2205 0461 Cultural History of Preliterate Societies (also listed as 2202 0461)

Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies.

3 s.h.

Prerequisite: 1 2202 0100 or 5 2205 0102

5 2205 0462 People and Cities (also listed as 2202 0462 and 2206 0462)

Interdisciplinary and cross-cultural investigation of processes of urbanism and urbanization; the formation, structure and functioning of cities throughout the world.

3 s.h.

Prerequisite: 5 2202 0404, 5 2205 0220, 4 2206 0410 or 8 2208 0306; or permission of the instructor.

Transcultural Major in World Cultures

Lois A. More, General Program Coordinator

Transcultural Studies

Program A

Transcultural studies, an approach to world cultures, offers opportunities to analyze generalizations regarding human behavior and to examine universal aspects of social institutions that transcend boundaries of culture areas. The program prepares students to teach world cultures in junior and senior high schools. As a liberal arts major, it is preparatory to graduate specialization in cultural anthropology, geography or history, as well as careers in business, museums, government or private agencies whose focus is the non-West.

Program Coordinator: Lois A. More, History

Semester Hours

Core Requirements

9

1 2202 0200 Cultural Anthropology

4 2206 0200 Cultural Geography

5 2205 0102 Study of Non-Western History

Unit Requirements

12

Select two of the following 6 semester hours transcultural units

1 2202 307 Peoples of Southeast Asia

4 2206 305 Geography of East and Southeast Asia

5 2205 132 Classical Chinese Civilization

5 2205 133 Modern Chinese Civilization

Select two

4 2206 306 Geography of South Asia

5 2205 131 Development of Indian Civilization

1 2202 330, 2206 330 Culture in Transition in India:

An Anthropo-Geographical Approach

Select two

1 2202 301 Peoples of Africa

4 2206 412 Geography of Sub-Saharan Africa

5 2205 108 Development of African Civilization

Select two

- 1 2202 304 Peoples of the Soviet Union
 4 2206 419 Geography of the Soviet Union
 5 2205 323 History of Russia to 1917

Select two

- 1 2202 303 or 309 Peoples of South or Middle America
 4 2206 308 Land and Life in Latin America
 5 2205 114 Early Latin American Civilization
 5 2205 116 Modern Latin American Civilization

Select two

- 4 2206 413 Geography of the Middle East
 5 2205 109 Development of Islamic Civilization
 1 2202 310 Cultures of the Middle East

Select two

Electives	Semester Hours
1 2202 302 Ethnology of Oceania	12
1 2202 402 Dynamics of Culture	
1 2202 405 Psychological Anthropology	
1 2202 406 Peasant Culture	
1 2202 409 Anthropology of Religion	
1 2202 463 Anthropological Linguistics	
5 2205 461 Cultural History of Preliterate Societies	
5 2205 330 Chinese Social History Through Literature	
5 2205 431 Development of Indian Character and Culture	
5 2205 432 Development of Japanese Character and Culture	
4 2206 421 Population Problems of the World	
4 2206 423 Culture and Resource Utilization	
1 2202 412 Cultural Ecology	
1 2202 415 Women in Traditional Society	
1 2202 460, 5 2205 260, 4 2206 460 Independent Transcultural Study	
	REQUIRED TOTAL

Asian Studies**Program B**

Asian Studies, a program in the social sciences and humanities, introduces the classical Asian civilizations and their modern transformations. The program offers regional concentrations in South or East Asia. Students prepare for Asian graduate study and careers in journalism, government, and international business or private agencies whose focus is Asian.

Program Coordinators: Suresh Desai, Economics; J. Kenneth Olenik, History

Requirements**Semester Hours**

Introduction—Mode of Inquiry

Requirement: 5 2205 102 Study of Non-Western History

Interdisciplinary Regional Concentration

(One regional concentration)

a. East Asia

Requirement

5 2205 132 Classical Chinese Civilization

Electives (3 courses in 3 disciplines)

4 2206 305 Geography of East & Southeast Asia

6 2207 403 Government & Politics of China & Japan

8 2208 334 Comparative Social Systems: U.S. & the East Asian Societies

4 2206 460 Independent Study: East Asia

b. South Asia Requirement		
5 2205 131	Development of Indian Civilization	3
Electives (3 courses)		9
4 2206 306	Geography of South Asia	
6 2207 404	Government and Politics of South Asia and India	
4 2206 330, 2202 330	Culture in Transition in India: An Anthro-Geographical Approach	
J 4903 290	Indian Literature and Culture	
4 2206 460	Independent Study: South Asia	
Comparative Studies—Modernization		6-9
Electives (2 or 3 courses)		
8 2208 334	Comparative Social Systems: U.S. and the East Asian Societies	
3 2204 303 or 2204 403	Economic Growth and Development of Comparative Economic Systems	
1 2202 406	Peasant Culture	
6 2207 303	The Politics of Development and Modernization	
4 2206 409	Urbanization in World Perspective	
General Electives (3 or 4 courses)		9-12
4 2206 413	Geography of the Middle East	
5 2205 109	Development of Islamic Civilization	
1 2202 310	Cultures of the Middle East	
6 2207 406	Government and Politics of the Middle East	
1 2202 307	Peoples of Southeast Asia	
5 2205 133	Modern Chinese Civilization	
1 2202 432	Development of Japanese Character and Culture	
5 2205 335	The Communist Revolution in China	
5 2205 330	Chinese Social History through Literature	
5 2205 431	Development of Indian Character and Culture	
5 2205 342	Seminar in Asian History	
5 1510 230 & 1509 340	Oriental Philosophy	
5 1510 205	Oriental Religions	

REQUIRED TOTAL 33

Latin American Studies

Program C

The Latin American Area Studies specialization offers the student a wide range of opportunities, both in terms of academic flexibility and future professional endeavors. The specialization provides a three-pronged approach:

A. the student is exposed to several disciplines which analyze Latin America and Latin Americans in depth;

B. there is a language component which enables the student to better understand local cultures and to communicate effectively within them;

C. the field experience components of this specialization gives the student the opportunity to put into practice the knowledge acquired in the classroom.

Those graduating within this specialization will have a broad background which will allow them great latitude in career choices.

Program Coordinators: Rolf Sternberg, Geography; Rose Minc, Spanish/Italian; George Bernstein, Educational Foundations.

Requirements	Semester hours
P 0308 100	The Many Worlds of Latin America: Interdisciplinary Perspectives
5 2205 114	Early Latin American Civilization
P 0308 300	Pre-Field Work Seminar in Latin American Area Studies Field Experience
P 0308 401	Post-Field Work Seminar in Latin American Area Studies

Electives

Students are required to take courses in a minimum of three fields or disciplines. Early Latin American Civilization—which is a requirement—fulfills this minimum history need. Elective offerings are in the following fields:

Anthropology	Geography	Sociology
Comparative Education	History	Spanish
Economics	Political Science	Linguistics

P 0308 0100 The Many Worlds of Latin America Interdisciplinary Perspectives

This course is designed to introduce the student to the study of Latin America from an interdisciplinary point of view. It focuses on the physical environment, the creations of people in their environment, their literary culture, their development over the span of time and their social and political conditions. The interdisciplinary approach is used to illustrate the interrelatedness of all aspects of life in Latin America so that it might be seen as a total culture region.

4 s.h.

P 0308 0300 Pre-Field Work Seminar in Latin American Area Studies

This course prepares students for their field experience in either the Hispanic communities of the mainland or in selected regions of Latin America. It is designed to acquaint the students with techniques of planning for different kinds of field work, designing proposals and learning to take into account culture differences. (The faculty represents a variety of disciplines and the teaching is interdisciplinary.)

Prerequisite: P 0308 0100

3 s.h.

P 0308 0400 The Field Experience in Latin American Area Studies

The field experience permits students participation in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.

Prerequisites: P 0308 0300, P 0308 0100, CRS in similar field.

P 0308 0401 Post Field Work Seminar in Latin American Area Studies

The post field work seminar enables the students to organize ideas and materials gathered during the field experience in an analytic report. The seminar affords students the opportunity to exchange ideas and information with other members of the group on their specific field experiences as these relate to report preparation.

3 s.h.

Prerequisites: P 0308 0300, 0308 0400

Department of Political Science**Professor:** Hourtoule**Associate Professors:** Johnson (Chairman), Menake, Utete**Assistant Professors:** Balfe, Batkay, Berlin, Long**Instructors:** Feldstein

Political science is a branch of the social sciences concerned with the theory and practice of government and politics in the contemporary world. Students concentrate in:

1. American government and politics;
2. comparative government and politics;
3. international relations or;
4. political thought and method.

In addition to its traditional/legal aspects, it is part of the behavioral sciences drawing extensively from the findings of other relevant disciplines.

Pre-Law: Dr. Balfe, School and Departmental Advisor

As many political science majors at Montclair State College identify themselves as pre-law, the department maintains a full-time law school advisor to assist seniors in their preparation and selection of law schools. Several clusters of courses in the department are suggested for law school candidates including criminal and civil law plus American constitutional and international law.

Public Administration Minor

To provide more employment opportunities in both state and local government, the political science department has put together a new minor program in public administration. Open to all students it includes:

Requirements

	Semester Hours
Institutions of American Government	3
Introduction to Public Administration	3

Electives

Politics of the Federal Bureaucracy	3
Public Personnel Administration	3
Government Budgeting	3
Urban Administration	3
Seminar and Internship	3
State and Local Government	3

REQUIRED TOTAL 18

Political Science Major

Requirements

	Semester Hours
6 2207 0102 The American Political Process	3
6 2207 0103 Institutions of American Government	3
6 2207 0201 Comparative Government & Politics	3
6 2207 0202 International Relations	3
6 2207 0300 Scope and Theories in Political Sciences	3
6 2207 0408 Development of Political Thought to Machiavelli	3

REQUIRED TOTAL 18

Electives

	Semester Hours
6 2207 0200 Introduction to Politics*	3
6 2207 0203 International Organization	3
6 2207 0214 Women in Politics	3
6 2207 0301 American Party System	3
6 2207 0302 Public Opinion and Pressure Groups	3
6 2207 0303 The Politics of Development and Modernization	3
6 2207 0304 State and Local Government	3
6 2207 0305 Introduction to Public Administration	3
6 2207 0306 Campaign Politics	3
6 2207 0307 American Political Thought	3
6 2207 0308 Ethnic Politics in America	3
6 2207 0309 Urban Politics	3
6 2207 0310 Public Administration	3
6 2207 0311 Governmental Budgeting	3
6 2207 0315 Urban Administration	3
6 2207 0320 Africa and Asia in World Politics	3
6 2207 0321 Law and Society: Civil Law	3
6 2207 0415 Law and Society II: Criminal Law	3
6 2207 0400 American Constitutional Law: The Federal System	3
6 2207 0401 American Constitutional Law: Civil Rights and Liberties	3
6 2207 0402 Government and Politics of Africa	3
6 2207 0403 Government and Politics of China and Japan	3
6 2207 0404 Government and Politics of India and South Asia	3
6 2207 0405 Government and Politics of the U.S.S.R.	3
6 2207 0409 Modern Political Thought	3
6 2207 0410 Directed Study	3
6 2207 0411 Black Politics in America	3
6 2207 0412 Government and Politics in Communist East Europe	3

6 2207 0416	Selected Topics in Political Science	3
6 2207 0420	Congressional District Internship	3
6 2207 0425	Politics of Federal Bureaucracy	3
6 2207 0426	Seminar and Internship in Public Administration I	4
6 2207 0427	Seminar and Internship in Public Administration II	4
6 2207 0429	Quantitative Analysis in Political Science	3
6 2207 0430	International Law	6
	REQUIRED TOTAL	33

*Not to be taken by Political Science Majors

Political Science Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours credit in the above major program consisting of both required and elective courses. See department chairman or any member of the department for details.

Political Sciences Course Descriptions

6 2207 0102 The American Political Process

Essential elements of American political life such as parties, pressure groups, public opinion and foreign affairs as they relate to the dynamics of the policy process. 3 s.h.

6 2207 0103 Institutions of American Government

The fundamentals of the U.S. Constitution, Congress, the Presidency and the Courts. Their operations and interactions. 3 s.h.

6 2207 0200 Introduction to Politics

Government and politics in the contemporary world with particular reference to American politics and institutions. Not for political science majors. 3 s.h.

6 2207 0201 Comparative Politics

Constitutional principles, governmental institutions and political processes of selected contemporary states with emphasis on major European governments. 3 s.h.

6 2207 0202 International Relations

Recent and contemporary world politics and the foreign relations and policies of selected states. 3 s.h.

6 2207 0203 International Organizations

Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations. 3 s.h.

6 2207 0214 Women in Politics

The role of women in the functioning of the American political system. 3 s.h.

6 2207 0220 Introduction to Paralegalism

Students receive an introduction to the legal system and the legal process, as well as the role of the lawyer and the paralegal therein. 3 s.h.

6 2207 0230 Fundamentals of Legal Research

Students learn principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. In addition, students are introduced to the newest techniques of legal research which utilize the computer. 3 s.h.

6 2207 0300 Scope and Theories in Political Science

The development of the discipline of political science; basic concepts and research trends. The behavioral movement and post-behavioral reactions. 3 s.h.

6 2207 0301 American Party System

Organization, function and practice of political parties in the U.S. Campaign functions, membership

problems, political finance and policy-formation practices.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0302 Public Opinion and Pressure Groups	
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0303 Politics of Development and Modernization	
The major contemporary schools of political modernization and development theory. Inter-relationship among political, social and economic variables.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0304 State and Local Government	
State political systems, including their administrative and local sub-systems. Federal-state and inter-state relations; the political institutions of New Jersey.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0305 Introduction to Public Administration	
Literature and developments in the field of public administration; the Federal bureaucracy in the policy-making process.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0306 Campaign Politics	
This course is taught in election years and provides the student with field experience at the local precinct or party level.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0200 or 6 2207 0103	
6 2207 0307 American Political Thought	
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.	3 s.h.
Prerequisite: 6 2207 0102 or 6 2207 0103 or 6 2207 0200, instructor's permission	
6 2207 0308 Ethnic Politics in America	
The political behavior of American ethnic groups from the Puritans to the Puerto Ricans.	3 s.h.
Prerequisites: 6 2207 0102, 6 2207 0103, 6 2207 0200, instructor's permission	
6 2207 0309 Urban Politics	
The policies, processes, inter-relationships and organization of governments in heavily-populated areas.	3 s.h.
Prerequisite: 6 2207 0103, or instructor's permission	
6 2207 0310 Public Personnel Administration	
The problems and processes in the U.S. of public personnel administration at the State and local level.	3 s.h.
Prerequisites: 6 2207 0305, 6 2207 0103, instructor's permission	
6 2207 0311 Governmental Budgeting	
The budgetary process in governmental agencies from the perspective of political demands and influences.	3 s.h.
Prerequisite: 6 2207 0305, 6 2207 0103, or instructor's permission	
2207 0315 Urban Administration	
Problems and policy-making in the larger urban or metropolitan complexes.	3 s.h.
Prerequisites: 6 2207 0103, 6 2207 0305, instructor's permission	
2207 0320 Law in Society: Civil Law	
This course will examine the American civil legal system as it affects a variety of our social institutions.	3 s.h.
Prerequisite: 6 2207 0103, 6 2207 0305, instructor's permission	
2207 0321 Law in Society: Criminal Law	
To introduce student to institutions, processes, and social functions of criminal law. Emphasis placed on structure of American criminal justice system, functions of behavior of major legal actors (i.e. police, prosecutors, judges, corrections officers, etc.). Legal rights of criminal defendants, dynamics of criminal trials, extent and causes of crime, and selected issues of substantive criminal law.	3 s.h.

- 6 2207 0322 American Constitutional Law: the Federal System**
 Interpretation of Supreme Court decisions in the areas of the distribution of power within the national government and between the national government and the states. 3 s.h.
- 6 2207 0323 American Constitutional Law: Civil Rights and Liberties**
 The development of the Constitution and the Supreme Court of the United States illustrated through reference to Court opinions in civil rights and liberties. 3 s.h.
 Prerequisites: Junior standing, senior standing, instructor's permission
- 6 2207 0325 Internship in Law I**
 This internship gives students the opportunity to practice their paralegal skills in working for a law firm or in a similar advocacy situation. Students are expected to utilize techniques of client interviewing, advocacy and legal research. 3 s.h.
 Prerequisites: 6 2207 0220, 6 2207 0230
- 6 2207 0326 Internship in Law II**
 This internship gives students the opportunity to continue, refine, and advance the paralegal skills learned in Internship in Law I in working for a law firm or in a similar advocacy situation. Students are expected to utilize techniques of client interviewing, advocacy, and legal research. 3 s.h.
 Prerequisites: 6 2207 0220, 6 2207 0230, 6 2207 0325
- 6 2207 0402 Government & Politics of Africa**
 Governmental and political development, organization and practices in sub-Saharan Africa. 3 s.h.
- 6 2207 0403 Government & Politics of China-Japan**
 The Government and politics of Japan, China and Korea in the contemporary world. 3 s.h.
- 6 2207 0404 Government & Politics of India & South Asia**
 The political experiences and institutions of the Indian subcontinent since 1947. The Republic of India, Pakistan, Ceylon and Bangladesh. 3 s.h.
- 6 2207 0405 Government & Politics of Latin-America**
 Governmental and political development, organization and practices in the states of Middle America and South America. 3 s.h.
- 6 2207 0406 Government & Politics of the Middle East**
 Government and politics in the Arab States, Turkey, Israel and Iran. 3 s.h.
- 6 2207 0407 Government & Politics of U.S.S.R.**
 The political and institutional organizations of the Soviet Union; contemporary political issues. Party and governmental structures. 3 s.h.
- 6 2207 0408 Development of Political Thought to Machiavelli**
 Selected major political philosophies from Plato and Aristotle, through to Machiavelli. 3 s.h.
- 6 2207 0409 Modern Political Thought**
 Selected political philosophers from Machiavelli to the present. 3 s.h.
 Prerequisite: 6 2207 0408 or instructor's permission
- 6 2207 0410 Directed Study**
 Juniors and seniors may elect three to six credits of independent study under the direction of a member of the political science staff. 3 s.h.
- 6 2207 0411 Black Politics in America**
 Black participation in the American political system from the colonial period to the present. 3 s.h.
- 6 2207 0412 Government and Politics of Communist East Europe**
 The political and governmental organizations of the communist countries of Eastern and Central Europe (exclusive of the U.S.S.R.); institutions, practices and ideologies including inter-regional relations. 3 s.h.
 Prerequisite: Instructor's permission

6 2207 0413 Afro-Asian Foreign Policies

The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era. 3 s.h.

Prerequisite: 6 2207 0303

6 2207 0416 Selected Topics in Political Science

This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment than is possible in a regular course. 3 s.h.

Prerequisite: Majors only, instructor's permission

6 2207 0420 Congressional District Internship

In this course students will work as interns for one semester in the office of N.J. State legislator, U.S. congressperson or senator, or State or Federal executive. 4 s.h.

6 2207 0425 Politics of Federal Bureaucracy

In-depth examination of the federal bureaucracy in relationship with national, state and local agencies. Prerequisites: 6 2207 0103, 6 2207 0305 or instructor's permission 3 s.h.

6 2207 0426 Seminar and Internship in Public Administration

A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester. 5 s.h.

Prerequisite: Instructor's permission, CRS in similar field

6 2207 0427 Seminar & Internship in Public Administration II

A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester. 4 s.h.

Prerequisite: Instructor's permission

6 2207 0429 Quantitative Analysis in Political Science

The main goal of this course will be to familiarize students with various quantitative methods used in political science research with the aim of giving them the ability to evaluate and criticize such research. A variety of quantitative techniques will be covered, ranging from simple descriptive statistics to Guttman scaling to factor analysis. Students will also be given basic training in how to use canned statistical programs and basic data processing. 3 s.h.

6 2207 0430 International Law

The nature and place of international law in the conduct of international relations. 3 s.h.

Prerequisite: Majors only

Department of Psychology

Professors: Brower, Buchner, Hauer, Rotter, Seidman, Seymour (Chairman)

Associate Professors: Aronow, Draper, Friedman, M., Garcia, Haupt, Kramer, Krumacher, Perera, Sugarman, Unger, Williams, Worms

Assistant Professors: Badin, Cheu, Cicerone, Ellison, Hoover, Duryea, Friedman, S., Garibaldi, Goodkin, Herman, Koppel, LeMay, Locher, O'Connell, Olson, Schwartz, Siiter, Townsend

Undergraduate courses in psychology: provide a sound basis for later professional or graduate training in psychology; satisfy the needs of students, majors and non-majors, who are interested in psychology primarily as part of a broad liberal education; provide psychological principles and techniques as intellectual tools for work in other social and biological sciences, and in professional fields such as social work, journalism, business and law; and provide courses for future teachers, as described by the School of Education and required for teacher certification in the State of New Jersey.

Psychology Major

Requirements

Semester Hours

7 2001 0101	General Psychology I: Growth and Development	3
7 2001 0105	General Psychology II: An Experimental Approach	3

7 2001 0110	Quantitative Methods in Psychology	3
7 2001 0215	Experimental Psychology	4

Electives: 21 hours from the following with at least one course each from one, two, and three-starred groups.

7 2001 0109	Man and His Environment	3
7 2001 0200	Educational Psychology	3
7 2001 0201	Child Psychology	3
7 2001 0202	Adolescent Psychology	3
7 2001 0210	Psychology of Individual Differences	3
7 2001 0218	Experimental Analysis of Human Behavior	4
7 2001 0225	Psychology of Adjustment	3
7 2001 0227	Psychological Aspects of Human Sexuality	3
7 2001 0255	Environmental Psychology	3
7 2001 0270	Industrial and Organizational Psychology	3
7 2001 0280	Introduction to Community Psychology	3
7 2001 0300	Teaching of Psychology*	3
7 2001 0302	Psychology of Women*	3
7 2001 0303	Psychosocial Aspects of Aging*	3
7 2001 0310	Psychological Tests and Measurements***	3
7 2001 0320	Psychology of the Handicapped***	3
7 2001 0325	Psychology of the Gifted***	3
7 2001 0328	Abnormal Psychology***	3
7 2001 0332	Psychological Foundations of Personality*	3
7 2001 0335	Social Psychology*	3
7 2001 0340	Verbal Learning and Memory**	3
7 2001 0342	Principles of Conditioning and Learning**	3
7 2001 0343	Comparative Psychology**	3
7 2001 0348	Psycholinguistics**	3
7 2001 0350	Physiological Psychology**	3
7 2001 0352	Perception**	3
7 2001 0355	Motivation**	3
7 2001 0360	History and Systems of Psychology**	3
7 2001 0370	Psychological Aspects of Consumer Behavior***	3
7 2001 0379	Psychology and Literature*	3
7 2001 0380	Externship in Community Psychology***	3
7 2001 0383	Psychology of Aggression***	3
7 2001 0400	Seminar in Psychology	3
7 2001 0402	Social Role of Psychotherapies	3
7 2001 0405	Psychological Anthropology*	3
7 2001 0442	Curriculum and Methods in Sex Education	3
7 2001 0446	Today's Woman	3
7 2001 0463, 0464	Psychological Foundation of Music I, II	2 ea.
7 2001 0491, 0492	Independent Study I, II	1-3 ea.

REQUIRED TOTAL 34

General Psychology Minor

Requirements

7 2001 0101	General Psychology I	3
7 2001 0105	General Psychology II	3

Psychology Electives (300 level or above)

Psychology Electives

REQUIRED TOTAL 18

Community Psychology Minor

The psychology department has developed a course concentration in community psychology. Community psychology refers to the concept of bringing psychological techniques, services and methods to indigents of the community, and of rendering aid in ongoing social problems. It focuses on intervention, behavior changes and dysfunctional behavior considered in the context of the immediate

environment and of the effect on the community as well as the individual. The program provides the groundwork for further training in law, political science, anthropology, psychology, sociology, economics, social studies, education and other disciplines. It can also lead to paraprofessional work within the community.

Requirements

		Semester Hours
7 2001 0101	General Psychology I: Human Growth & Development	3
7 2001 0280	Introduction to Community Psychology	3
7 2001 0380	Psychology and Community Services	3
Core Courses		
7 2001 0225	Psychology of Adjustment	3
7 2001 0227	Psychological Aspects of Human Sexuality	3
7 2001 0255	Environmental Psychology	3
7 2001 0302	Psychology of Women	3
7 2001 0335	Social Psychology	3
7 2001 0370	Psychological Aspects of Consumer Behavior	3
7 2001 0383	Psychology of Aggression	3
7 2001 0405	Psychological Anthropology	3
7 2001 0491, 0492	Independent Study	1-3

Multidisciplinary Courses

The following are suggestions only. Appropriate choice will be made with advice from all departments concerned.

4 2206 0462	Urban Geography	3
5 2205 0462	People and Cities	3
6 2207 0309	Urban Politics	3
8 2208 0306	Patterns of Community	3
W 0837 0301	Addictions and Dependencies	3
X 1301 0419	Special Studies in Family and Child Services	3
		REQUIRED TOTAL
		21

Psychology **Course Descriptions**

7 2001 0100 Re-Entry Seminar

Provides academic, career, and personal counseling during first semester adjustment period, group identification support while developing renewed skills and ego strength. Offered only on a pass/fail basis.
2 s.h.

7 2001 0101 General Psychology I: Growth and Development

Psychology as an applied behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting.
3 s.h.

7 2001 0103 Freshman Seminar

Major objective is to better acclimate the beginning college student (freshmen transfers) to campus life through an emphasis on affective education and group interaction. Values clarification and self-identity are important course components. Offered only on a Pass/Fail basis.
2 s.h.

7 2001 0109 Man and His Environment

Interdisciplinary with geography; people's modification and understanding of the environment; future human and environmental projections.
3 s.h.

7 2001 0200 Educational Psychology

Required for teaching. Child and adolescent development. Fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating teaching-learning creativity.
3 s.h.

Prerequisite: 7 2001 0101

7 2001 0201 Child Psychology

Growth, development and behavior of children. Physical, intellectual, social and emotional develop-

ment and their interaction. Scientific method exemplified through the literature and intensive study of individual children. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0202 Adolescent Psychology

Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment; problems of adolescents with practical application to oneself and others. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0203 General Psychology II: An Experimental Approach

Emphasis on psychology as an experimental and research oriented science. Topics under investigation include experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0210 Psychology of Individual Differences

The problems, methods and results of differential psychology.

3 s.h.

Prerequisite: 7 2001 0101

7 2001 0220 Quantitative Methods in Psychology

Descriptive statistics and introduction to statistical inference. Emphasis on practical application of statistical tools in testing and research. Topics include logic of statistics, organization and presentation of statistical data, measures of central tendency, variability, and relative position. Parametric and nonparametric, tests of significance. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0225 Psychology of Adjustment

Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0227 Psychological Aspects of Human Sexuality

Behavior and attitudes influenced by basic sexuality; widens perspectives to aid in decision-making. Developmental periods and sexual relationships; connections between psychological theory and sexual mores; genetic understandings. 3 s.h.

7 2001 0230 Environmental Psychology

The influence of the physical environment on the behavior of organisms; population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as a function of prolonged exposure; salutary effects of aesthetically pleasing stimulation. 3 s.h.

Prerequisite: 7 2001 0101, Instructor's permission

7 2001 0233 Psychology of the Gifted

Survey of the recent literature on gifted children along with the special problems they face in their adjustment. Special attention on the discovery and cultivation of creativity. 3 s.h.

Prerequisite: 7 2001 0101, 7 2001 201 or 203

7 2001 0235 Psychology of the Handicapped

Surveys current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analyses of case materials for theoretical and practical applications to the psychology of exceptionality. 3 s.h.

Prerequisite: 7 2001 0101

7 2001 0240 Industrial and Organizational Psychology

Application of psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.

Prerequisite: 7 2001 0101

3 s.h.

7 2001 0245 Introduction to Community Psychology

Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist.

3 s.h.

Prerequisite: 7 2001 0101

7 2001 0250 The Teaching of Psychology

Objectives, content, procedures and evaluation of teaching psychology, Kindergarten through Junior College. Organization of classroom activities, lesson planning, techniques of motivation, multisensory aids and applications of principles to classroom situations. Observation and participation in classroom activities; preparation for student teaching.

3 s.h.

Prerequisites: 7 2001 0101, 7 2001 0200

7 2001 0260 Social Psychology

Focus on social behavior of the individual and the group. Social perception, motivation and learning; attitudes and values; development and dynamics of social groups; intergroup tension and prejudice; mass phenomena; psychological approaches to social issues.

3 s.h.

Prerequisite: 7 2001 0101

7 2001 0265 Psychology of Women

The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.

3 s.h.

Prerequisite: 6 s.h. in Psychology

7 2001 0268 Psychological Aspects of Aging

Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process, mental health, death, adjustment problems, needs, issues.

Prerequisites: 7 2001 0101, course in Developmental Psychology

3 s.h.

7 2001 0273 Psychology and Literature

Terminology and techniques of modern depth psychologies—Freudian, Jungian, Adlerian—to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children.

3 s.h.

Prerequisite: 6 semester hours in Psychology or English.

7 2001 0290 Advanced Community Psychology

Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.

3 s.h.

Prerequisite: 7 2001 0101, 7 2001 0245 or instructor's permission

7 2001 0301 Experimental Psychology

Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. Six hours, two lectures, four labs.

Prerequisite: 7 2001 0220

4 s.h.

7 2001 0305 Physiological Psychology

Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neuro-hormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.

3 s.h.

Prerequisite: 7 2001 0203 or instructor's permission.

7 2001 0308 Perception

The theory and procedure of perceptual research. Theoretical approaches reviewed: modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness.

3 s.h.

Prerequisite: 7 2001 0301 or instructor's permission.

7 2001 0310 Psychological Tests and Measurements

Tests of intelligence, aptitude, achievement and personality; principles of psychological testing; approaches to test construction. 3 s.h.

Prerequisite: 7 2001 0220

7 2001 0322 Experimental Analysis of Human Behavior

Explores applications of operant conditioning methods to practical human problems through study and laboratory exercises and experiments. Applications may include increasing and decreasing frequency, successive approximations, and teaching of complex behaviors through discrimination, fading, and chaining procedures. Applications primarily to handicapped children and adults. Two lecture and four laboratory hours. 4 s.h.

Prerequisite: 7 2001 0203

7 2001 0332 Psychological Foundations of Personality

Current approaches and theories of personality development and organization.

3 s.h.

Prerequisite: 7 2001 0203

7 2001 0340 Verbal Learning: Memory

Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man. 3 s.h.

Prerequisite: 7 2001 0203 or instructor's permission.

7 2001 0341 Psychological Aspects of Consumer Behavior

Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising. 3 s.h.

Prerequisite: 7 2001 0220 or 7 2001 0240 or 7 2001 0260

7 2001 0345 Mental Health Issues of Hispanic Americans

A lecture-type course focusing on the personal, social, institutional and cultural forces that affect the mental health of Americans of Spanish descent. The course will cover issues such as the measurement of psychological functions, bilingualism, personal values and belief systems, the dynamics of the family and acculturation. A midterm and a final exam as well as a research paper will be required from students. 3 s.h.

Prerequisite: Junior standing.

7 2001 0348 Psycholinguistics

The study of language through linguistic, behavioral, and cognitive methods. Basic linguistics ideas used for the explications of problems in grammar, cognitive structure, meaning, and speech correction and comprehension. 3 s.h.

Prerequisite: 7 2001 0203 or instructor's permission.

7 2001 0353 Comparative Psychology

The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior. 3 s.h.

Prerequisite: 7 2001 0301 or instructor's permission.

7 2001 0355 Motivation

The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation; primary emphasis on the experimental, rather than the theoretical literature; motivational concepts relevant to human and animal research. 3 s.h.

Prerequisites: 7 2001 0203 and 6 additional hours in Psychology.

7 2001 0358 Fundamentals of Conditioning and Learning

Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively. 3 s.h.

Prerequisite: 7 2001 0301 or instructor's permission.

7 2001 0360 History and Systems of Psychology

Historical developments of psychology; comparative analysis of the major schools of contemporary psychology; new trends and movements in psychological theory. 3 s.h.

Prerequisites: 7 2001 0203 and 6 additional semester hours in Psychology (not including 7 2001 0101.)

7 2001 0365 Abnormal Psychology

Overview of psychopathological processes—neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.

Prerequisite: 7 2001 0203, 7 2001 0225 or 0332 3 s.h.

7 2001 0383 Psychology of Aggression

The root causes of violence in America. There is no more crucial domestic problem, no more searching dilemma than that of violence in urban areas. Our most sensitive domestic issues center around poverty, frustration, the police and racial conflict. 3 s.h.

Prerequisite: 7 2001 0101, 7 2001 0220, 7 2001 0225

7 2001 0387 Methods in Evaluation Research in Psychology

This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings. 4 s.h.

Prerequisite: 7 2001 0220, 7 2001 0245, 7 2001 0290

7 2001 0390 Cooperative Education in Psychology

The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off-campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract. 9 s.h.

Prerequisite: Junior status

7 2001 0400 Seminar in Psychology

Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only. 3 s.h.

Prerequisite: 7 2001 0301

7 2001 0402 Social Role of Psychotherapies (also listed as 2208 0402)

The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements. Cross-listed with sociology. 3 s.h.

Prerequisite: Two courses in Psychology.

7 2001 0405 Psychological Anthropology

Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Student work with bi-cultural informants. 3 s.h.

Prerequisites: 7 2001 0101, 1 2202 0100

7 2001 0442 Curriculum and Methods in Sex Education

Developing curricula to fit individual schools; implementation demonstrated; current texts and audio-visual materials analyzed. 3 s.h.

Prerequisite: Instructor's permission.

7 2001 0446 Today's Woman

Advanced lecture-discussion of history and current status of woman's liberation movement, man's reaction; achievement motive; witch trials; black woman; eastern and western woman; other selected topics. 3 s.h.

Prerequisite: Instructor's permission.

7 2001 0463 Psychological Foundations of Music I

Inter-relations of physical and psychological aspects of music; perception of music, experimental aesthetics, measurement and diagnosis of musical ability. Research methods in the study of musical

phenomena. Independent research.	2 s.h.
Prerequisite: 7 2001 0101, instructor's permission.	
7 2001 0464 Psychological Foundations of Music II	
Continuation of 2001 0463.	2 s.h.
Prerequisite: 7 2001 0101, instructor's permission.	
7 2001 0470 Children's Rights and Child Advocacy	
The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence); the process and goals of advocacy; the community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.	3 s.h.
Prerequisite: Junior standing, instructor's permission.	
7 2001 0491 Independent Study I: Research	
Individual research project under supervision of a professor in the department.	3 s.h.
Prerequisite: Instructor's permission.	
7 2001 0492 Independent Study II: Research	
Individual research project under supervision of a professor in the department.	3 s.h.
Prerequisite: Instructor's permission.	

Department of Sociology

Professors: Alloway, Pratt

Associate Professors: Chasin, Kim, McGuire (Chairman)

Assistant Professors: Freund, Gordon, Hadis, Kurzweil, Klajman,
Livingston, Martin, Rubin

Sociology is centrally concerned with the questions: What is the nature of social existence? What is the relationship between people and social institutions? How are these institutions structured and related to one another? The discipline attempts to develop a systematically-reasoned and empirically-based understanding of the social group as the ground for human existence. The course should explore particular facets of the social structure, e.g., power, religion, social class. Students develop a clearer understanding of the nature of society and of our society in particular. Additionally, they grasp the ways of developing systematic and verified knowledge about societies and their functioning. Finally, insight into the conversion of knowledge into action will result.

The program in sociology serves students of several different interests. One group will enter graduate work in sociology and go on to a sociologically-based career, including advancement of the discipline. A second group will enter professional schools for which a foundation in sociology is recommended. The third group, planning a terminal program, concentrates in sociology for whatever utilities it has for them. The fourth group are the students in a general education preparation in sociology. Finally the program serves the general education and distribution requirements of the student majoring in some other field.

Four Areas of Specialization

Each student is advised to select one of the following concentrations:

A. Sociological—The specialization is most suitable for students considering graduate work in Sociology and for students seeking a terminal program designed to produce a systematic understanding of the structuring and functioning of society.

B. Interdisciplinary—This concentration is for a student seeking a dual major in related fields, or one seeking from 15 to 18 credits in a cognate field, such as sociology and philosophy, sociology and anthropology, sociology and the arts, or sociology and recreation-sports. The sociology department is participating with the departments of fine arts, music and speech and theater in interdisciplinary studies in urban cultural development. The student may organize a program and have it approved, or may participate in an existing plan.

C. Preprofessional—Careers utilizing a sociological background include teaching, marketing, public opinion research, social work, crime prevention, voluntary group work and recreation

management. Sociology is a good foundation for careers in law and the helping professions. Graduate work in the career field would generally be needed. Consortium arrangements are made with educational centers, government at local, national and world levels and professional agencies.

D. Applications of sociology and social action—This concentration is for students primarily concerned with the problem of converting knowledge into action. This may be in regard to fundamental social issues such as inequality, freedom of expression and action, violence and conflict, coercion, privacy and autonomy and others. On the other hand, it could be in regard to direct social work action. The approval may range from policy analysis and formation to program execution.

Special Learning Opportunities

The department encourages students to include in their programs a reasonable amount of off-campus learning, such as study abroad or at specialized centers in the United States, a semester at another institution, work-study arrangements, credit by examination and intern or extern program arrangements. The department urges students to select the individual program-planning option.

Minor in Applied Sociology with an Emphasis on Helping Professions and Institutions

As part of its Applied Sociology program, the sociology department has instituted a new emphasis on helping professions and institutions. This emphasis is open to students in all majors who are interested in pursuing careers in the human service field.

Requirements

	Semester Hours
2208 0215	The Sociology of Helping Professions and Institutions
2208 0315	Methods and Techniques in the Helping Professions
2208 0300	Externship in Sociology (Supervised Field Work) or
2208 0410	Social Action Practicum (Supervised Field Work)
	REQUIRED TOTAL
	9

Electives

2208 0101	Criminology	3
2208 0113	Social Problems	3
2208 0200	Sociology of Education	3
2208 0202	Racial and Ethnic Relations	3
2208 0204	Sociology of the Family	3
2208 0205	Black Family	3
2208 0211	Sociology of Health and Illness	3
2208 0213	Social Stratification	3
2208 0308	Sociology of Constructive Voluntary Action	3
2208 0309	Voluntary Organizations in American Life	3
2208 0311	Urban Sociology	3
2208 0333	Community Organization in the Arts	3
2208 0341	Sociology of Poverty and Welfare	3
2208 0402	The Social Role of Psychotherapy	3
2208 0405	Deviance and Social Control	3
2208 0414	Selected Topics in Applied Sociology	3
2208 0420	Sociology of Law	3
2208 0401	Social Structure of American Society	3
	REQUIRED TOTAL	9

The student can obtain further field experience by doing a project of his or her choice and selecting 208 0310 Directed Independent Research as one of his or her electives.

TOTAL SEMESTER HOURS REQUIRED 18

Sociology Major

Requirements

elect one

theory

	Semester Hours
8 2208 0312 Sociological Theory: Heuristic Approach	3

8 2208 0313	Sociological Theory: Critical Analysis	3
8 2208 0411	Selected Topics in Sociological Theory	3
Methodology		
8 2208 0210	Statistics for Social Research	3
8 2208 0301	Sociological Research Methods	3
8 2208 0412	Selected Topics in Sociological Research Methods	3
Advanced Course:	300 or 400 level course with appropriate approval	3
Action Course:	A three-semester hour action course, selected from:	
8 2209 0330	Externship in Sociology	3
	(may be in a campus organization)	
8 2208 0333	Community Organization in the Arts	3
8 2208 0410	Social Action Practicum	3
8 2208 0414	Selected Topics in Applied Sociology	3
	REQUIRED TOTAL	12

Electives

Select 24 semester hours

8 2208 0100	Sociological Perspectives	3
8 2208 0101	Criminology	3
8 2208 0112	Sociology of Leisure	3
8 2208 0113	Social Problems	3
8 2208 0200	Sociology of Education	3
8 2208 0202	Racial and Ethnic Relations	3
8 2208 0203	Sociology of Organized Crime	3
8 2208 0204	Sociology of the Family	3
8 2208 0205	Black Family	3
8 2208 0206	Individual and Society	3
8 2208 0210	Statistics for Social Research	3
8 2208 0211	Sociology of Health and Illness	3
8 2208 0212	Sociology of Social and Technical Change	3
8 2208 0213	Social Stratification	3
8 2208 0214	Sociology of Violence and Conflict	3
8 2208 0231	Social Bases of the Arts	3
8 2208 0300	Externship in Sociology	3
8 2208 0301	Sociological Research Methods I	3
8 2208 0302	Sociological Research Methods II	3
8 2208 0303	Large Scale Organizations	3
8 2208 0304	Sociology of Work and the Professions	3
8 2208 0305	Demography	3
8 2208 0306	Patterns of Community	3
8 2208 0307	City and the Arts	3
8 2208 0308	Sociology of Constructive Voluntary Action	3
8 2208 0309	Voluntary Organizations in American Life	3
8 2208 0310	Directed Independent Research	3
8 2208 0311	Urban Sociology	3
8 2208 0312	Sociological Theory: Heuristic Approach	3
8 2208 0313	Sociological Theory: Critical Analysis	3
8 2208 0320	The Sociology of Intentional Communities	3
8 2208 0321	White Collar Crime	3
8 2208 0330	Political Sociology	3
8 2208 0331	Sociology of Power	3
8 2208 0332	Sociology of Popular Arts	3
8 2208 0333	Community Organization in the Arts	3
8 2208 0334	Comparative Social Systems	3
8 2208 0335	Workers and Their Organizations	3
8 2208 0336	The Sociology of Helping Professions and Institutions	3
8 2208 0337	Methods and Techniques in the Helping Professions	3

8 2208 0341	Sociology of Poverty and Welfare	3
8 2208 0401	Social Structure of American Society	3
8 2208 0402	The Social Role of Psychotherapies	3
8 2208 0403	Sociology of Knowledge	3
8 2208 0404	Sociology of Religion	3
8 2208 0405	Deviance and Social Control	3
8 2208 0406	Sociology of Small Groups	3
8 2208 0407	Sociology of the Mass Media	3
8 2208 0408	Social Movements	3
8 2208 0410	Social Action Practicum	3
8 2208 0411	Selected Topics in Sociological Theory	3
8 2208 0412	Selected Topics in Social Research Methods	3
8 2208 0413	Selected Topics in Institutional Processes	3
8 2208 0414	Selected Topics in Applied Sociology	3
8 2208 0420	Sociology of Law	3
8 2208 0421	The Social Uses of Language	3
8 2208 0422	Sociology and Philosophy	3
8 2208 0425	Sociology of the Future	3
8 2208 0430	Sociology of Sex Roles	3

Sociology Course Descriptions

8 2208 0100 The Sociological Perspective

A systematic introduction to various sociological explanations of human behavior and social structures and processes. Not to be taken as an elective toward the sociology major. 3 s.h.

8 2208 0101 Criminology

Crime, the administration of criminal justice and criminal rehabilitation in American society. Cause and effect relationships in criminal deviancy, use of law in social control, and police and minority group relations. 3 s.h.

8 2208 0112 Sociology of Leisure

Leisure as a social problem, work and leisure, the use of leisure time in modern society. 3 s.h.

8 2208 0113 Social Problems

How social structure and dominant social institutions are related to problems of great concern to people; various approaches to the study of social problems; the implications of each. 3 s.h.

8 2208 0200 Sociology of Education

The entire socialization process; the school as an institution in the process of social change. Distinguishing the concept of education from the institutional confines of the school; the implications of traditionally sacrosanct roles and statuses inherent to education. (Not to be used for teacher certification.) 3 s.h.

8 2208 0202 Racial and Ethnic Relations

The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data. 3 s.h.

8 2208 0203 Sociology of Organized Crime

Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem. 3 s.h.

8 2208 0204 Sociology of the Family

The family from a comparative and historical perspective; the structure and role of the family in contemporary society. 3 s.h.

8 2208 0205 The Black Family

The Black family in American society; historical perspectives and contemporary conflicts surrounding the Black family. 3 s.h.

8 2208 0206 Individual and Society

Man as a biological, psychological and social being; the socialization process and its effect on the individual; the structure and function of groups. 3 s.h.

8 2208 0210 Statistics for Social Research

The use of descriptive summary and comparative techniques; tools for the analysis of relationships in data generated in research, or for the evaluation of published research. (Recommended in preparation for the course in research methods.) 3 s.h.

8 2208 0211 Sociology of Health and Illness

Social conceptions of physical and mental health and illness; the social role of the sick; comparative medical beliefs and practices in American society; medical ideologies; the relationship between social stratification and health and illness. 3 s.h.

8 2208 0212 Sociology of Social and Technical Change

The statics and dynamics of modern societies; institutional development and maintenance; possibilities for reform and revolutionary movements. 3 s.h.

8 2208 0213 Social Stratification

The inequalities of social ranking systems in virtually all known societies; theoretical and empirical approaches of stratification; delineating the variables of power; power elites, class consciousness, alienation and class mobility. 3 s.h.

8 2208 0214 Sociology of Violence and Conflict

The social sources of violence and conflict; the sociological approach contrasted with biological and psychological ones; interpersonal and institutionalized violence and conflict; the relationship between conflict and violence; types of violence and conflict, war, crime, class conflict, and ethnic and racial hostilities. 3 s.h.

8 2208 0231 Social Bases of the Arts

The impact of social forces and institutions on the fine, performing and decorative arts; the social importance and function of the several arts. 3 s.h.

8 2208 0300 Externship in Sociology

Students will select an institution in the metropolitan area in which to become participant-observer. Application of a sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval. 3 s.h.

8 2208 0301 Sociological Research Method I

The formulation of hypothesis, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science. 3 s.h.

8 2208 0302 Sociological Research Method II

The formulation of hypothesis, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science. 3 s.h.

Prerequisite: 8 2208 0301

8 2208 0303 Large Scale Organizations

The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems. 3 s.h.

8 2208 0304 Sociology of Work and Professions

The meaning of work in society; professionalization; occupation ideologies; social-psychological aspects of attitudes toward work and specific occupations; occupational stratification; social structures within which work takes place. 3 s.h.

8 2208 0305 Demography

Problems of population and demographic change; social and psychological foundation of fertility in the contexts of social class and religious ideologies; the impact of urbanization; the uses of demographic data. Transcultural studies, racial differences and ecological factors. 3 s.h.

8 2208 0306 Patterns of Community

Urban, suburban, rural, regional, national and international communities; comparison, contrast and synthesis of the sociological research in these areas. 3 s.h.

8 2208 0307 The City and The Arts

The arts in the functioning of the city; cityscape and its social meanings; functions of the various arts in large cities; impact of city types upon the arts; city cultural sub-groups and the arts. 3 s.h.

8 2208 0308 Sociology of Constructive Voluntary Action

Patterns of behavior that exceed normative expectations and the extent of such behavior under circumstances such as war, individual and community disaster, intensive social action periods and non-crisis periods. Contemporary social action processes, such as civil rights and black power movements, national service programs and international service projects. 3 s.h.

8 2208 0309 Voluntary Organizations in American Life

Voluntary organizations in society, comparative study of profit-making and non-profit making organizations and comparison of voluntary organization in democratic and non-democratic nations. 3 s.h.

8 2208 0310 Directed Independent Research

Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval. 3 s.h.

8 2208 0311 Urban Sociology

Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers. 3 s.h.

8 2208 0312 Sociological Theory: Heuristic

The nature of sociological theory; how an understanding of social phenomena is possible, how sociological theory develops, what pre-suppositions it is based on, and how different perspectives on social reality can be used by the student of sociology. 3 s.h.

8 2208 0313 Sociological Theory: Criticism

A comparison of important theories on key themes in sociology; the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change. 3 s.h.

8 2208 0320 Sociology of Intentional Communities

The sociology, history, and literature of communitarian ventures, with emphasis on contemporary communes, cooperatives and collectives. Literature and philosophy of utopia will be explored through a sociology of knowledge perspective. 3 s.h.

8 2208 0321 White Collar Crime

An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S. as well as its social, political and economic implications. 3 s.h.

8 2208 0330 Political Sociology

This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels. 3 s.h.

8 2208 0331 Sociology of Power

The nature of power; power on the national level in the United States; alternative theoretical approaches; the historical origins of several of these theories. 3 s.h.

8 2208 0332 Sociology of Popular Arts

Components of entertainment including paperback and magazine fiction, movies, theater and popular music; the audiences, content, performers, managers and owners. 3 s.h.

8 2208 0333 Community Organization in the Arts

A case study approach, including field work in a laboratory community, will be used to analyze community structure in the arts on the local level. Topics will include the social forces in the local arts council movement, the amateur and semiprofessional arts groups in fine, performing, and decorative arts, the Community Concert Society, social correlates to local participation, and home arts. 3 s.h.

8 2208 0334 Comparative Social Analysis

Comparative sociological schemes; the analytical blocks of total society; kinship, family and marriage; policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations.

3 s.h.

8 2208 0335 Workers and Their Organizations

The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.

3 s.h.

8 2208 0336 The Sociology of Helping Professions and Institutions

This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.

3 s.h.

8 2208 0337 Methods and Techniques in the Helping Professions

This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.

3 s.h.

8 2208 0341 Sociology of Poverty and Welfare

Poverty and welfare institutions as social phenomena; the meaning of poverty; absolute and relative deprivation; the functions of social welfare institutions.

3 s.h.

8 2208 0390 Cooperative Education in Sociology

The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off-campus, during which a student is supervised by a faculty coordinator and the Office of Cooperative Education and is responsible for completing the terms of a learning contract.

8 s.h.

8 2208 0401 Social Structure of American Society

Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society.

3 s.h.

8 2208 0402 The Social Role of Psychotherapies

Various psychotherapies, from classical Freudian to encounter groups in relation to existing culture and to the feasible application of these therapies.

3 s.h.

Prerequisite: Instructor's permission

8 2208 0403 Sociology of Knowledge

The social origins of anything considered to be knowledge in a given social environment.

3 s.h.

8 2208 0404 Sociology of Religion

The social bases of religious belief and activity, religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

3 s.h.

8 2208 0405 Deviance and Social Control

Various theoretical perspectives on human deviance; the interaction of the forces of social control and deviant behavior.

3 s.h.

8 2208 0406 Sociology of Small Groups

Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the ongoing interaction of the class as small groups.

3 s.h.

8 2208 0407 Sociology of the Mass Media

The social aspects of the organization and functioning of television, radio, press, magazines, film and other media. The media in social control, in information and other communication, and as forces influencing behavior.

3 s.h.

8 2208 0408 Social Movements

This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples of social movement activity.

3 s.h.

8 2208 0410 Social Action Practicum

Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in applied sociology.

3-9 s.h.

8 2208 0411 Selected Topics in Sociological Theory

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

3 s.h.

8 2208 0412 Selected Topics in Sociological Research Methods

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

3 s.h.

8 2208 0413 Selected Topics in Institutional Processes

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

3 s.h.

8 2208 0414 Selected Topics in Applied Sociology

The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

3 s.h.

8 2208 0420 Sociology of Law

The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

3 s.h.

8 2208 0421 Social Uses of Language

To explore the function of language in everyday life, focusing on the implications of the sociology of language for the understanding of such other areas of religion, and social change.

3 s.h.

8 2008 0422 Sociology and Philosophy

The philosophical roots, as well as the relevance of philosophy for the sociological enterprise will be major theme. An emphasis will also be placed on the contributions that sociology may offer to the task of philosophizing.

3 s.h.

Prerequisites: 8 2208 0312, 8 2208 0313, instructor's permission

8 2208 0425 Sociology of the Future

An examination of the study of probable effects of alternative futures to American society. This course will examine, also, the manner in which such alternatives are studied; the role of prediction by scientific means, and the use of probabilities in projecting the outline of our society in the near and great future.

3 s.h.

8 2208 0430 Sociology of Sex Roles

The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion; special emphasis is placed on the impact of social change on sex roles in contemporary society.

3 s.h.

Cooperative Education**9 4950 0301, 0401 Cooperative Education I, II**

The cooperative plan is an instructional strategy that provides the student with controlled learning experiences in an employment situation while these experiences are building upon prior cognitive and technical skills attained in college.

8 s.h.

Prerequisites: Determined by individual departments

Women's Studies

9 4990 0101 Introduction to Women's Studies

The course introduces students to women's studies as an academic discipline and exposes them to diversity of approaches to study and research about women.

3 s.h.

9 4990 0401 Independent Study

CRS in similar field

Campus Community Program

9 4998 0226 Group Process-Human Sexuality

A discussion-seminar course for students who have already had one course in human sexuality (from any school or department). Reading and discussion will be of an advanced nature, with the assumption students have basic multi-disciplinary background.

3 s.h.

9 4998 0321 Perspectives on Women

Survey of the material written on the subject of women integrated with the personal experiences of the members of the class. The approach will be a multi-disciplinary one, utilizing works from many fields. The course will cover those areas of concern which generally have not been given expression in traditional classrooms.

3 s.h.

9 4998 0332 Despair in Contemporary Literature and Art

Creative inquiry into post-World War II literary and artistic expression of despair, one central question being, what is despair. The work of Samuel Beckett will be an area of major concern. Students will determine other areas of investigation. Size of the seminar is limited to 15 people to insure active participation and discussion.

3 s.h.

9 4998 0333 Feminism Past, Present, and Future

This course will study the history of the Feminist Movement up to the present. Current and past leaders of the Feminist Movement and their contributions and influence in the many areas of the Feminist Movement will be discussed. Future trends and needs will be studied.

3 s.h.

9 4998 0334 Changing Roles of Women and Men

This course will include a study of the traditional roles of women and men and how they developed. The current social, political, economic and legal changes which are influencing these roles will be discussed. The effect of these changes on individuals and society now and in the future will be studied. Options now available to women and men in personal (including family structure), economic, educational and political areas will be explored in discussions.

3 s.h.

9 4998 0335 Me Writing an Autobiography and Family History

Utilizing family, church, library, and community records, the student will begin to develop a verbal and visual autobiography and family history. Class work will focus on researching and writing about the dynamic interrelationships of the individual with the family and community.

3 s.h.

9 4998 0337 Being a Separate Person

This course will deal with the central question of how to balance the need for autonomy with the need for intimacy. It will examine the issues involved in women moving out of dependency and into full, distinct identity. It will study the personal and social sources of our attitudes about relationships and the effects of certain variables on attitude change. It is the aim of the course for students to gain insight about their own behavior and needs in the light of shifting cultural standards.

3 s.h.

9 4998 0350 The Assassination of JFK

The course offers the student the unique opportunity to research his/her own beliefs on the assassination. The student will be exposed to various theories on the crime while also being exposed to the criticisms of the above-mentioned theories. Various guest speakers will help in the instruction.

3 s.h.

OFFICERS

President

DAVID D. DICKSON, LHD, Bowdoin College; MA, PhD, Harvard University

Vice President for Academic Affairs

IRWIN H. GAWLEY, Jr.; BA, MA, Montclair State College; EdD, Columbia University

Vice President for Administration and Finance

ELLIOT I. MININBERG; BA, University of Bridgeport; MA, PhD, New York University

Vice President for Academic Services

ROBERT E. MACVANE; BA, MED, Springfield College

Dean of Students

LAWTON W. BLANTON, Jr.; BS, MA, University of Florida

Academic Deans

School of Education and Community Services

ERCELL I. WATSON; BA, Delaware State College; BA, Howard University; EdD, University of Pennsylvania; LLD, Delaware State College

School of Fine and Performing Arts

DONALD M. MINTZ; BA, PhD, Cornell University; MFA, Princeton University

School of Humanities

WOLFGANG B. FLEISCHMANN; BA, St. John's College; MA, PhD, University of North Carolina at Chapel Hill

School of Mathematics and Science

RICHARD A. LYNDE; BA, Hamilton College; PhD, Iowa State University

School of Professional Arts and Sciences

HOUSTON G. ELAM; BS, MS, Pennsylvania State University; PhD, New York University

School of Social and Behavioral Sciences

PHILIP S. COHEN; BS, MA, PhD, New York University; Degree Supérieur, University of Paris

Division of Graduate Studies

CAROL JEAN EHRLERS; BA, MA, PhD, University of Colorado

SCHOOL OF EDUCATION AND COMMUNITY SERVICES

CURRICULUM AND TEACHING

JOHN BARELL; AB, Harvard University; MA, City University of New York; EdD, Columbia University

CATHERINE A. BECKER; BA, MA, Montclair State College; PhD, New York University

SUSIE B. BOYCE; BA, Florida State University; MAT, Tulane University; EdD, Rutgers University

RAYMOND A. DISPOTO; BS, Fordham University; MA, Jersey City State College; EdD, Rutgers University

HEILA FAGES; EdD, University of South Florida; MEd, EdD, University of Miami

JOSEPH T. FLAGG; BA, MA, Montclair State College; EdD, Rutgers University

NICHOLAS M. MICHELLI; BA, Montclair State College; MA, New York University; EdD, Columbia University

OBERT A. PINES; BS, Monmouth College; MS, Rutgers University; EdD, University of Miami

NITA E. UHIA; BA, Fairleigh Dickinson University; MA, Montclair State College

JOSEPH L. VENTURINI; BA, Glassboro State College; EdD, Rutgers University

EDUCATIONAL FOUNDATIONS

EORGE BERNSTEIN; BA, Rutgers University; MA, EdD, Teachers College, Columbia University

MARY E. BREDEMEIER; BS, Madison College; MA, Columbia University; EdD, Rutgers University

RANCESCO CORDASCO; BA, Columbia University; MA, ID, New York University

YRNA A. DANZIG; BA, Cornell University; MAT, Delffe College

THUNDER HAAS, BS, MA, Seton Hall University; EdD, Rutgers University

ANN SHARP, BA, College of New Rochelle; MA, Catholic University of America; EdD, University of Massachusetts

EDUCATIONAL LEADERSHIP

LAURENCE BELLAGAMBA, BS, MA, New York University; EdD, Columbia University

JOSEPH F. BRUNNER, BA, MA, Jersey City State College; EdD, University of Massachusetts

ANNE C. CASTENS, BA, MA, Montclair State College; EdD, Rutgers University

WILLIAM A. CUFF; BA, Adelphi University; MA, George Washington University; PhD, New York University

JULIA DUTKA; BA, Hong Kong University; MA, EdM, EdD, Teachers College, Columbia University

GEORGE D. HEISS; BA, Pennsylvania State University; EdM, University of Maryland; EdD, Rutgers University

GERHARD LANG; BS, MA, City University of New York; PhD, Columbia University

FRANK P. MERLO; BA, MA, Montclair State College; EdD, Rutgers University

WENDY G. OXMAN; BA, Brandeis University; MA, Yeshiva University; PhD, Fordham University

GROSVENOR RUST; AB, Wheaton College; AM, PhD, University of Chicago

MARIA E. SCHANTZ; BS, Jersey City State College; MA, Montclair State College; EdD, Columbia University

DIANA J. STONE; BA, Adelphi College; MA, Montclair State College

ERCELL I. WATSON; BA, Delaware State College; BA, Howard University; EdD, University of Pennsylvania; LLD, Delaware State College

COUNSELING, HUMAN SERVICES, AND GUIDANCE

MARIE FRAZEE; BA, MA, Montclair State College; EdD, Teachers College, Columbia University

DONALD B. GREGG; BA, MA, Montclair State College; EdD, Lehigh University

RICHARD A. GREY; BS, Winston-Salem Teachers College; MA, Montclair State College; EdD, Fordham University

ABRAHAM GELFOND; BS, Rutgers University; MA, PhD, New York University

ALFRED H. GORMAN; BS, MA, New York University; EdD, Columbia University

LAWRENCE B. HAMEL; BA, St. John's University; MA, Boston University; PhD, St. John's University

ARLENE KING; BA, New York University; MA, Montclair State College; PhD, Fordham University

GEORGE G. KING; AA, Monmouth College; BA, MA, Montclair State College; EdD, Rutgers University

THOMAS MILLARD; AB, Rutgers University; MA, MSW, Third Year Certificate, Columbia University; MA, New York University; EdD, Fairleigh Dickinson University

EDWIN MILLS; BA, Bob Jones University; MEd, Florida Atlantic University

EIDOLA J. TALLEY; Bjourn, University of Texas; MA, University of Rhode Island; PhD, Boston University

TETE H. TETENS; BS, Union College; MA, Columbia University

CONSTANCE WALLER; BS, Indiana University; MA, EdD, Teachers College, Columbia University

ROBERT B. WILLIAMS; BA, Occidental College; EdM, EdD, Rutgers University

SCHOOL OF FINE AND PERFORMING ARTS

FINE ARTS

PETER G. BARNET; BA, MA, EdD, New York University
 JOHN CARTER; BA, MA, University of California at Los Angeles
 M. ANNE CHAPMAN; BFA, Cleveland Institute of Art; MFA, Cranbrook Academy of Art
 CARMEN CICERO; BS, Newark State College
 JOHN CZEKOWICZ; BFA, MA, University of New Mexico; MFA, Rutgers University
 LEON DE LEEUW; BA, MA, New York University
 SUELLEN GLASHAUSSER; BA, Manhattanville College; MA, University of California at Berkeley
 NANCY GOLDRING; BA, Smith; MA, New York University
 SUSAN GONICK-BARRIS; BA, Brooklyn College; MA, Pratt Institute
 BERNARD KAHN; AB, Brooklyn College; MA, Columbia University
 ABRAHAM S. KAMPF; Diploma, Art Teachers College, Tel Aviv; BS, New York University; MA, PhD, New School for Social Research
 ROBERT KIRSCHBAUM; BA, University of Rochester; MFA, Yale University, School of Art
 RICHARD KYLE; BA, Paterson State College; MA, Teachers College, Columbia University
 PATRICIA LAY; BS, Pratt Institute; MFA, Rochester Institute of Technology
 ARLINE J. LEDERMAN; BA, MA, New York University
 CHARLES H. MARTENS; BSC in Ed, Massachusetts College of Art; MA, EdD, New York University
 WILLIAM C. MCCREATH; Diploma, Teachers College, Dundee, Scotland; BFA, University of Manitoba School of Art; MFA, Cranbrook Academy of Art
 ELLEN MOHAMMED; BS, University of North Carolina; MA, Columbia University
 HELENE S. ROSS; BS, BFA, MFA, Temple University
 KLAUS SCHNITZER; BA, State University of New York, Albany; MFA, Ohio University
 BETTY SCHLOSSMAN; BA, Wellesley College; MA, PhD, Columbia University
 JONATHAN SILVER; BS, MA, Columbia University
 MICHAEL SIPORIN; BA, MFA, Southern Illinois University
 WALTER SWALES; BA, Temple University; MFA, Cranbrook Art Academy
 ALIDA WALSH; BS, Northwestern; MFA, San Diego State College
 BRIAN WATKINS; BFA, Yale University; MFA, Rutgers University
 CAROL WESTFALL; BFA, Rhode Island School of Design; MFA, Maryland 1st College of Art

MUSIC

MARDEN BATE; BM, Manhattan School of Music; MA, Columbia University
 EDMUND BATTERSBY; BM, MM, Juilliard School of Music
 DONALD BUTTERFIELD; Diploma, Juilliard School of Music
 BRENDA M. COOPER; BS in Music, Western Reserve University; Prof. Dip., Juilliard Graduate School of Music; MA, Columbia University
 JOHN L. GIRT; BFA, MFA, Carnegie-Mellon University
 HOWARD GREENBLATT; BA, Queens College; MA, Hofstra University
 TING HO; BA, Bucknell University; MA, Kent State University; PhD, University of Rochester
 LEON HYMAN; BA, Queens College; MS, Juilliard School of Music
 JEROME L. LANDSMAN; BM, University of Rochester;

MM, DMA, University of Southern California

MARIO F. ONEGLIA; BM, Manhattan School of Music; MA, Professional Diploma, EdD, Columbia University
 ROSALIE R. PRATT; BM, Manhattanville College; MM, Pius XII School of Fine Arts; EdD, Columbia University
 MURRAY PRESENT; BM, Michigan State University; Diploma, Juilliard School
 DAVID RANDOLPH; BS, College of the City of New York; MA, Columbia University
 OSCAR RAVINA; Diploma, Leningrad Conservatory of Music; Diploma, Bruckner Conservatory of Music; Diploma, Academy of Music in Salzburg; Diploma, Academy of Music in Vienna
 RUTH RENDLEMAN; BM, North Carolina School of Arts; MM, Manhattan School of Music
 JACK SACHER; BA, Middlebury College; MA, EdD, Columbia University
 WILLIAM SHADEL; BA, Montclair State College; MMus, Manhattan School of Music
 EMILY T. WATERS; BA, MA, Montclair State College
 BARBARA L. WHEELER; BM, Hastings College; MM, Florida State University
 BENJAMIN F. WILKES; AA, Lomar College; BS, MS, Juilliard School of Music; EdD, Columbia University
 THOMAS WILT; BM, MM, University of Rochester
 CHAIM ZEMACH; Diploma, Accademia Chigiana (Italy); Diploma, Cologne University (Germany)

VISITING SPECIALISTS—MUSIC

LEONARD ARNER; BS, Columbia University
 KENNETH COOPER; BA, MA, PhD, Columbia University
 LOREN GLICKMAN; BM, Eastman School of Music
 DONALD HARWOOD; University of Rochester, Yale University
 DAVID LANGLITZ; BM, MM, Juilliard School of Music
 CURTIS MACOMBER; BM, MM, DMA, Juilliard School of Music
 RENEE SIEBERT; BM, MMus, Juilliard School of Music
 MARTIN SMITH; BA, MS, Juilliard School of Music
 DANIEL A. TRIMBOLI; BS, Ithaca College; MA, Columbia
 KONRAD M. WOLFF; LLD, Berlin University; MA, Columbia

SPEECH AND THEATER

JOSEPH F. BELLA; BFA, Carnegie-Mellon University; MFA, Catholic University of America
 DORIS B. BIANCHI; BS, Syracuse University; MA, MED, Columbia University
 WAYNE BOND; AB, Alderson-Broaddus College; MA, West Virginia University; PhD, Southern Illinois University
 RAMON L. DELGADO; BA, Stetson University; MA, Dallas Theatre Center (Baylor); MFA, Yale School of Drama; PhD, Southern Illinois University
 DANNIS B. EATON; BA, Ball State University; MA, Columbia University
 JOHN A. FIGOLA; BS, Ed, California State College; MFA, Carnegie-Mellon University
 L. HOWARD FOX; BA, Temple University; MA, Northwestern University; PhD, New York University
 EMERY HERMANS; Certificate, Nilolais Dance School
 W. SCOTT MacCONNELL; BA, Amherst College; MA, Columbia University
 DENNIS K. McDONALD; BA, University of Northern Iowa; MA, New York University; PhD, Carnegie-Mellon University
 CLYDE W. McELROY; BA, MA, Baylor University; EdD, University of Virginia
 KARL P. MOLL; AB, Westminster College; MA, Pennsylvania State University
 GERALD LEE RATLIFF; BA, Georgetown; MA, University of Cincinnati; PhD, Bowling Green State University

LINDA J. ROBERTS; BA, University of Bridgeport; MA, Columbia University
 JEROME ROCKWOOD; BA, Brooklyn College; MA, Western Reserve University; PhD, New York University
 PHILLIP SABATELLI; BA, MA, PhD, Temple University
 ANN G. SEIDLER; BA, Smith College; MA, PhD, New York University
 DONALD E. SOBOLIK; BA, MA, University of Nebraska
 CHRISTOPHER STASHEFF; BA, MA, University of Michigan; PhD, University of Nebraska
 ROBERT W. SWINSTON, Jr.; BFA, Juilliard School of Music
 HOWARD TRAVIS; BA, MA, PhD, University of Michigan

SCHOOL OF HUMANITIES

CLASSICS

DAVID H. KELLY; BA, Catholic University of America; MA, PhD, University of Pennsylvania
 TIMOTHY T. RENNER; BA, Yale University; MA, PhD, University of Michigan

ENGLISH

VICTOR ALPER; AB, Boston University; MA, PhD, New York University
 SHAHLA ANAND; BA, Lucknow University; MA, Agra University; MA, Columbia University; PhD, New York University
 JEANNINE A. BARRETT; BA, Tennessee State University; MA, PhD, New York University
 MURIEL R. BECKER; BA, Hunter College; MA, Montclair State College; MLS, Rutgers University
 THOMAS BENEDIKTTSSON; BA, Trinity University; PhD, University of Washington
 BUTLER E. BREWTON; BA, Benedict College; MA, Montclair State College; PhD, Rutgers University
 JANET K. CUTLER; BA, The University of Chicago; MA, PhD, University of Illinois, Champaign-Urbana
 WILLIAM C. DELL; BA, MA, New York University
 DAVID W.D. DICKSON; BA, LHD, Bowdoin College; MA, PhD, Harvard University
 WOLFGANG B. FLEISCHMANN; BA, St. John's College; MA, PhD, University of North Carolina at Chapel Hill
 GROVER C. FURR; BA, McGill University; MA, PhD, Princeton University
 ROBERT G. GORDON; BA, Colgate University; MA, Columbia University

MICHAEL F. GRIECO; BA, Montclair State College; MA, Columbia University
 FRANK B. HANSON; BS, University of Maine; MA, University of North Carolina at Chapel Hill; PhD, Yale University
 CLAIRE HEALEY; BS, Boston University; MA, PhD, Columbia University

BARRY D. JACOBS; BA, DePauw University; MA, PhD, Harvard University
 RITA JACOBS; BA, Queens College; MA, PhD, University of Pennsylvania
 PERCY E. JOHNSTON; BA, Howard University; MA, Montclair State College

LEE C. KHANNA; BA, Denison University; MA, PhD, Columbia University
 NAOMI C. LIEBLER; BA, City College of New York; MA, PhD, State University of New York at Stony Brook
 ANTHONY L. LOVASCO; BA, Williams College; MA, University of Connecticut

MORRIS G. McGEE; BA, Montclair State College; MA, EdD, New York University
 DAVID MERANZE; BA, Harvard University; MFA, DFA, Yale University
 ANNE Z. MICKELSON; BS, New York University; MA, PhD, Rutgers University

ALYCE SANDS MILLER; BA, Hunter College; MA, PhD, Pennsylvania State University

JAMES F. NASH; BA, LaSalle College; MA, PhD, University of Virginia

J. RAYMOND PAUL; BA, Princeton University; MA, Columbia University

GEORGE R. PETTY, Jr.; BA, Princeton University; MA, PhD, New York University

THEODORE PRICE; BA, Kenyon College; MA, Columbia University; PhD, Rutgers University

MURRAY PROSKY; BA, New York University; MA, PhD, University of Wisconsin

SANFORD RADNER; BA, Duke University; MA, EdD, Columbia University

MORTON D. RICH; BA, Cornell University; MEd, Rutgers University; PhD, New York University

JOHN P. ROBERTS; BA, Union College; MA, Columbia University

DOROTHY R. RUDY; BA, Queens College; MA, Columbia University

LAWRENCE SCHWARTZ; BA, Newark College of Engineering; MA, Stanford University; PhD, Rutgers University

DOUGLAS M. SCHWEIGEL; BA, Lake Forest College; MA, George Washington University; PhD, University of Minnesota

KEITH D. SLOCUM; BA, Knox College; MA, PhD, University of Pennsylvania

SHARON SPENCER; BA, MA, PhD, New York University

CAROLE B. STONE; BA, New York University; MA, Rutgers University; PhD, Fordham University

DAVID M. STUEHLER; BA, Rutgers University; MA, PhD, New York University

FRENCH

MAURICE CAGNON; BA, Providence College; MA, Middlebury College; PhD, University of Pennsylvania

ROBERT M. GLICK; BA, PhD, University of Chicago; MA, Middlebury College

HELENE KLIBBE, Licence-es-Lettres, Universite de Paris (Sorbonne); PhD, Syracuse University

HENRY RICHARDS; BA, MA, Columbia University

LOUIS J.M. ROEDERER; Licence en Droit, Universite de Lyon; PhD, New York University

MADELEINE A. SERGENT; Diploma de la Escuela Central de Idiomas, University of Madrid; MA, University of Colorado

ROBERT SOFFER; BA, New York University; MA, Columbia University; MA, Teachers College, Columbia University

ENID M. STANDING; BA, MA, Manchester University (England); Licence-es-Lettres, Universite de Besancon (France); PhD, New York University

LILLIAN SZKLARZYK; BA, Hunter College; MA, Middlebury College; PhD, University of Pennsylvania

KAY S. WILKINS; BA, PhD, University of Southampton (England)

GERMAN AND RUSSIAN

WALTER L. HEILBRONNER; BA, MA, PhD, University of Michigan

CARL D. LINDBLOM; BM, MA, University of Rochester; PhD, Rutgers University

JOHN V. MOORE; AB, Harvard College; MA, PhD, Princeton University

ERNESTINE SCHLANT; BA, MA, PhD, Emory University

LINGUISTICS

ALICE F. FREED; BA, MA, PhD, University of Pennsylvania

ROBERT L. MILLER; BA, Wayne State University; MA, PhD, University of Michigan

MILTON S. SEEGMILLER; BA, Brooklyn College; MA, PhD, New York University

JANET SUSI; BA, Douglass College; MA, Middlebury College; MA, Columbia University

PHILOSOPHY AND RELIGION

- KENNETH AMAN; BA, Maryknoll College; MA, Fordham University; MTh, Maryknoll Seminary; PhD, Yale University
 DAVID W. BENFIELD; BA, St. John's College, Md.; MA, PhD, Brown University
 THOMAS W. BRIDGES; BA, New York University; MA, PhD, Columbia University
 EVA M. FLEISCHNER; BA, Radcliffe College; MA, University of Notre Dame; PhD, Marquette University
 STEPHEN M. JOHNSON; AB, Spring Hill College; MA, Marquette University; MPhil, PhD, Yale University
 MICHAEL S. KOGAN; BA, PhD, Syracuse University
 MATTHEW LIPMAN; BS, PhD, Columbia University
 ADELE B. MCCOLLUM; BS, MA, PhD, Syracuse University
 THOMAS H. RICHARDSON; Distinguished Service Professor of Philosophy, BS, State University of New York; MA, EdD, Columbia University; London School of Economics; Cambridge University; Gutenberg University; LLD, Bloomfield College
 WILLIAM L. STANTON; BA, Stanford University; MA, PhD, Princeton University
 ROBERT F. STREETMAN; AA, Holmes Junior College; BA, Millsaps College; BD, Duke Divinity School; STM, Pacific School of Religion; PhD, Drew University

SPANISH AND ITALIAN

- CLARA L. BARBEITO; Dr en Filosofia y Letras, Hayana University
 ITALO BATTISTA; BA, City College, CUNY; MA, Rutgers University
 VINCENZO Z. BOLLETTINO; BA, City College, CUNY; MA, PhD, Rutgers University
 JOANNE ENGLEBERT; BA, Adelphi University; MA, Middlebury College; PhD, New York University
 NORMAN H. FULTON; BA, Central Missouri State College; EdM, University of Rochester; Licentiate, PhD, University of Madrid
 MARILYN FRANKENTHALER; BA, City College, CUNY; MA, Hunter College; PhD, Rutgers University
 JOHNG HWANG; BA, MA, Stanford University; MA, PhD, University of Oregon
 LINDA G. LEVINE; BA, New York University; MA, PhD, Harvard University
 ROBERT J. McCORMICK; BA, St. John's University; MA, Queens College; PhD, Graduate Center, CUNY
 ROSE S. MINC; BA, Douglass College; MA, PhD, Rutgers University
 GIOVANNA MIRESSI; BA, Lehman College, CUNY; MA, Queens College, CUNY
 PAOLO POSSIEDI; Dottore lettere, University of Padua (Italy)
 ANA M. RAMBALDO; BA, Southern Methodist University; MA, PhD, New York University
 JANET SUSI; BA, Douglass College; MA, Middlebury College; MA, Columbia University
 JOHN A. ZAHNER; BA, Toledo University; MA, PhD, University of Arizona

SCHOOL OF MATHEMATICS AND SCIENCE

BIOLOGY

- LARRY D. CRIBBEN; BS, Rio Grande College; MNS, University of Oklahoma; PhD, Ohio University
 ANN MARIE DI LORENZO; BA, Trinity College; MS, PhD, New York University
 ROSALYN T. KANE; BA, Hunter College; MS, New York University
 CHRISTOPHER B. KENNEDY; BA, Fairleigh Dickinson University; MS, William Paterson College
 LEAH K. KODITSCHEK; BA, Hunter College; MA, Oberlin College; PhD, Rutgers University

- STEPHEN J. KOEPP; BA, Messiah College; MA, PhD, North Texas State University
 S. MARIE KUHNEN; BA, Montclair State College; MA, Columbia University; PhD, New York University
 JON MICHAEL McCORMICK; BS, Portland State University; MS, PhD, Oregon State University
 ANNA C. PAI; BA, Sweet Briar College; MA, Bryn Mawr College; PhD, Albert Einstein College of Medicine
 JUDITH A. SHILLCOCK; BA, MA, PhD, Rutgers University
 PAUL P. SHUBECK; BS, Seton Hall University; MA, Montclair State College; PhD, Rutgers University
 ALVIN A. STEIN; BS, MS, Brooklyn College; PhD, CUNY
 MICHAEL H. SURGAN; BS, Brooklyn College; MS, PhD, University of Massachusetts

CHEMISTRY

- HANI Y. AWADALLAH; BSc, Cairo University; MSc, Bowling Green State University
 JOSEPH F. BECKER; BA, Harvard University; MEd, University of Delaware; MA, EdD, Columbia University; JD, Seton Hall University
 LUCILE S. FINK; BA, Mount Holyoke College; MS, Fordham University
 ROLAND R. FLYNN; BA, Montclair State College; MA, Brown University
 ANDREW R. GALLOPO; BA, Rutgers University; PhD, Brown University
 VLADIMIR L. GARIK; BS, MS, Polytechnic Institute of Brooklyn; PhD, University of Pittsburgh; PhD, University of Connecticut
 IRWIN H. GAWLEY, Jr.; BA, MA, Montclair State College; EdD, Columbia University
 JOHN L. ISIDOR; BS, Stonehill College; PhD, University of North Carolina
 MARC L. KASNER; BS, California State University at Long Beach; PhD, Purdue University
 RICHARD A. LYNDE; BA, Hamilton College; PhD, Iowa State University
 MARK L. LYNDROP; BS, Trinity College; PhD, Northwestern University
 NANCY S. PAISLEY; BA, University of Minnesota; MA, PhD, University of Illinois
 ALBERT ZABADY; BA, MA, Montclair State College; MS, University of New Hampshire

MATHEMATICS AND COMPUTER SCIENCE

- PHILIP H. ANDERSON; BS, MA, University of Notre Dame; MS, Purdue University
 EDWARD A. BOYNO; BA, St. Peter's College; MS, PhD, Rutgers University
 CARL E. BREDLAU; BA, MS, PhD, Rutgers University
 THOMAS F. CARROLL; BS, MAT, Tulane University; MA, Rutgers University
 WINCHUNG A. CHAI; BA, Wittenberg University; MS, New York University; PhD, Polytechnic Institute of Brooklyn
 ANDREW DEMETROPOULOS; BA, Rutgers University; MA, MS, New York University; PhD, Stevens Institute of Technology
 THOMAS F. DEVLIN; BA, LaSalle College; MA, PhD, Catholic University of America
 ROBERT GARFUNKEL; BA, Rutgers University; MA, Montclair State College
 CARL GOTTSCHALL; BA, City University of New York; JD, New York University; MS, Yeshiva University
 GEORGE H. GUGEL; BA, Hartwick College; MS, State University of New York at Oneonta
 KENNETH KALMANSON; BS, Brooklyn College; PhD, City University of New York
 PATRICIA KENSCHAFT; AB, Swarthmore College; MA, PhD, University of Pennsylvania
 WILLIAM G. KOELLNER; BA, MA, Montclair State College
 MARCOANTONIO LACATENA; BS, Fairleigh Dickinson University; MA, Montclair State College

LINDA C. LEAVY; BA, Rutgers University; MSc, Wollongong University

AUDREY J. LIEFF; BA, Montclair State College; MS, Stevens Institute of Technology; EdD, Rutgers University

EVAN M. MALEFSKY; BA, MA, Montclair State College, PhD, New York University

GIDEON NETTLER; BS, Rensselaer Polytechnic Institute, MS, Polytechnic Institute of Boston

BOBBIE ANN OTHMER; BA, Macalester College; MS, University of Minnesota; MS, Rutgers University

WILLIAM R. PARZYNSKI; BS, MS, PhD, Stevens Institute of Technology

HELEN MARCUS ROBERTS; BS, City College of New York; PhD, Johns Hopkins University

LAWRENCE H. RUSSELL; BSFE, Columbia University; MS, PhD, Stevens Institute of Technology

MAX A. SOBEL; BA, Montclair State College; MA, PhD, Columbia University

JOHN G. STEVENS; BS, Indiana University; PhD, New York University

RUTH C. STEWART; BA, MA, EdD, Rutgers University; MA, Columbia University

JAMES H. STODDARD; BS, PhD, University of Michigan

WALTER R. WESTPHAL; BS, State University of New York at Buffalo; MA, Columbia University; MA, University of Illinois

THOMAS E. WILLIAMSON, Jr.; BS, University of Maryland; PhD, Rutgers University

KENNETH C. WOLFF; BA, Montclair State College; MA, Pennsylvania State University; PhD, New York University

PHILIP W. ZIPSE; BS, DePaul University; MS, University of Akron; PhD, Rutgers University

PHYSICS-GEOSCIENCE

MARY A. DERENGOWSKI-STEIN; BA, College of Our Lady of the Elms; PhD, Columbia University

VICTORIA P. FILAS; BA, MA, Montclair State College

IMAD E. HAMDAN; BS, MAT, Fairleigh Dickinson University; PhD, Walden University

CHARLES L. HAMILTON; BA, Lehigh University; MA, Dartmouth College; PhD, Virginia Polytechnic Institute

RICHARD H. HODSON; BS, Trenton State College; MA, Montclair State College

FRANK S. KELLAND; BEd, Keene State College; MA, Clark University

LUDWIK KOWALSKI; BS, MS, Polytechnic Institute of Warsaw; PhD, University of Paris

STEPHEN W. KOWALSKI; BS, Fairleigh Dickinson University; MA, PhD, New York University

WILLIAM H. MAK; BS, PhD, Rensselaer Polytechnic Institute

BEN MINOR; BS, MEE, City College of New York; PE, State of New Jersey; IE, Columbia University

ROBERT C. RAMSDELL; BA, Lehigh University; MS, Rutgers University; MA, Princeton University

JOHN V. THIRUVATHUKAL; BS, St. Louis University; MS, Michigan State University; PhD, Oregon State University

MARY L. WEST; BA, MS, Cornell University; PhD, Columbia University

RICHARD CHANEY; BS, Florida A&M University; MAS, University of Illinois

CHUAN YU CHEN; BS, National Taiwan University; MA, Columbia University; PhD, New York University

RALPH A. DIPIETRO; BBA, MBA, Baruch College, CUNY; PhD, New York University

IRENE K. DOUMA; BS, Fairleigh Dickinson; MBA, Rutgers State University; CPA, State of New Jersey

STANLEY FREIMARK; BBA, Baruch College, MBA CUNY

MILOTON H. GOLDBERG; AA, BS, BA, University of Florida; MBA University of Pennsylvania

JOSEPH A. GRECO; BBA, St. John's University; MBA, PhD, New York University; CPA, State of New Jersey

MAREK P. HESSEL; MS, Warsaw University; PhD, New York University

ERNEST A. KALLMAN; BS, St. Peter's College; MBA, Baruch College, PhD, CUNY

FREDERICK J. KELLY; BA, Manhattan College; M.Phil, Columbia University; PhD, Columbia University

JERRY KIRKPATRICK; BA, University of Denver; MBA, Baruch College

PAUL KONZELMANN; BS, MBA, Fairleigh Dickinson University; J.D., Delaware Law School

JOHN MAC DONALD; BS, St. Peter's College; MBA, Seton Hall University; CPA, State of New Jersey

KEVIN MC SHEA; BA, Seton Hall University; MBA, Baruch College

BYUNG K. MIN; BA, Seoul National University; MBA, SUNY, Albany; PhD, Pennsylvania State University

PHYLLIS L. MIRCHIN; BS, William Paterson College, MBA, New York University

JEAN NAMIAS; BS, CCNY; MA, PhD, New York University

JAMES NEELANKAVIL; BS, St. Thomas College; MBA, Asian Institute of Management; PhD, New York University

ALAN J. OPPENHEIM; BS, MS, Polytechnical Institute of Brooklyn; PhD, New York University

RICHARD PLANK; BS, St. Peter's College; MBA Seton Hall University

LEE PRIMIANO; BA, Montclair State College; MBA, Rutgers State University; CPA, State of New Jersey

LEON REINHARTH; BA, CCNY, MA, Columbia University; MBA, New York University; PhD, CUNY

THERESA ROSANIA; BA, Montclair State College; MBA, Fairleigh Dickinson University

ARNOLD SCHANCUPP; BBA, CCNY; JD, Brooklyn Law School; LLM, New York University

SHASHI K. SHAH; BS, Brigham Young University; MBA, Brigham Young University

DOROTHY L. SHAPIRO; BS, Wagner College; MBA, Pace University; JD, Brooklyn Law School; CPA, State of New Jersey

ALLEN J. SIMONSON; AB, JD, Rutgers University; MBA, Seton Hall University

ABRAHAM STEIN; BA, MS, CCNY, MBA, PhD, New York University

JOHN H. TURNER; BS, Fairleigh Dickinson University; MBA, PhD, Baruch College, CUNY

ELMER E. WATERS; BS, Columbia University; MBA, Rutgers University; PhD, Baruch College, CUNY

ELAINA ZUKER; B.Comm., Sir George Williams University; MS, New York, Polytechnic Institute

BUSINESS AND DISTRIBUTIVE EDUCATION

STEPHEN CYRUS; BA, MA, Montclair State College

JOSEPH C. HECHT; BS, Long Island University; MA, Ed.D, New York University

B. J. MANGOLD; BA, MA, State University of New York at Albany

ROSEMARIE MC GAULEY; BA, Trenton State College; MA, Seton Hall University

LOUIS C. NANASSY; BS, Indiana University of Pennsylvania; MA, Ohio State University; Ed.D, Columbia University

SCHOOL OF PROFESSIONAL ARTS AND SCIENCES

ADMINISTRATIVE SCIENCES

AMAR D. AMAR; BS, Punjab University; MS, Montana State University

FRANK J. AQUILINO; BBA, MBA, St. John's University

ARYEH BLUMBERG; AB, AM, PhD, University of Chicago

HARVEY BLUMBERG; BBA, CCNY; MBA, Baruch College; PhD, CUNY

ALBERT D. ROSSETTI; BS, Trenton State College; MA, Montclair State College; EdD, Rutgers University
 PALMINA A. UZZOLINO; BS, New York University; MA, Catholic University

HEALTH PROFESSIONS

RUTH C. BLANCHE; RN, Monmouth Medical Center; BA, MA, Seton Hall; EdD, Columbia University
 MICHAEL S. DAVIDSON; BA, Brown University; MA, MED, EdD, Columbia University
 JOAN C. FRICKE; BA, Montclair State College; MA, EdD, New York University
 HARRY H. HOITSMA; BS, MA, EDD, New York University
 MARK A. KAELIN; BA, MA, Montclair State College
 CATHERINE J. PASKERT; BS, Panzer College; MA, Columbia University; PhD, University of Utah
 JOHN G. REDD; BS, Ohio State University; MA, PhD, University of Michigan
 BLANCHE R. RIED; BA, Brooklyn College, CUNY, MA, PhD, New York University
 REZA B. SHAHROKH; BS, MS, PhD, Southern Illinois University
 ROBERT H. WITMORE; BS, Lynchburg College; MEd, University of Virginia; EdD, Columbia University
 HELEN WIIG; BA, Wagner College; MA, New York University

HOME ECONOMICS

HUBERTA D. ALCARO; BA, Western Washington State College; MS, Purdue University
 JOAN D. BERNSTEIN; BA, Queens College, CUNY; MA, EdD, Columbia University
 ROBERTA C. BRAUSE; BS, MS, Hunter College, CUNY
 MARJORIE R. DOREMUS; BS, Florida State University; MS, University of Washington
 M. ELAINE FLINT; BA, Western Kentucky University; MS, Southern Illinois University; PhD, Pennsylvania State University
 CHARLOTTE FRASCO; BS, University of Massachusetts; MS, Purdue University; PhD, Rutgers University
 LOIS J. GUTHRIE; BS, West Virginia University; MS, Purdue University
 KATHARINE B. HALL; BS, MS, University of Tennessee; PhD, Pennsylvania State University
 JUANITA HUDSON; BS, University of Illinois; MA, Columbia University
 ELIZABETH P. KELLEY; BS, Maryville College; MA, New York University; Professional Diploma, Columbia University
 BARBARA LITWORNIA; BA, Douglass College; MS, PhD, Rutgers University
 VIVIAN D. MORRIS; BS, MS, Alabama A&M University; PhD, George Peabody College
 MARGARET R. MUKHERJEE; BS, Cornell University; MA, Michigan State University; PhD, Rutgers University
 CATHERINE N. NORRIS; BS, MS, University of Tennessee; EdD, New York University
 MIRIAM G. SILVER; BS, Douglass College; MS, Bank Street College of Education
 JOAN S. TABOR; BA, Queens College, CUNY; MS, Ohio State University
 VIJAY TANEJA-JAISINGHANI; BS, BED, Delhi University, (India); MA, PhD, Iowa State University
 KAREN TODD; BS, MS, North Texas State University; PhD, State University of Iowa

INDUSTRIAL EDUCATION AND TECHNOLOGY

ROBERT BROWNING; BS, State University of New York at Oswego; MA, EdD, Columbia University
 ROBERT F. DORNER; BS, Trenton State College; MA, Montclair State College
 ARTHUR W. EARL; BS, Newark State College; MA, Montclair State College; EdD, Columbia University

HARRISON GOODALL; BS, Trenton State College; MA, Ball State University
 MARTIN T. GREENWALD; BS, BA, Edd, New York University; MS, CCNY
 DEBORAH HEALY; BA, College of New Rochelle; MA, Montclair State College
 WAYNE NELSON; BS, State University College at Oswego; MA, EdD, University of Northern Colorado
 WINFIELD L. PARSONS; BS, California State College (PA); MA, Texas A&M University
 GEORGE A. OLSEN; BS, Newark State College; MA, Montclair State College; EdD, New York University
 GLEN E. REHORN; BS, MS, EdD, Oklahoma State University
 FRED D. SCHUMM; BS, Newark State College; MA, Montclair State College; EdD, New York University
 RAYMOND C. VANBENSCHOTEN; BS, EdM, EdD, Rutgers University
 VINCENT J. WALLENCIK; BS, MA, Montclair State College; EdD, Rutgers University

PHYSICAL EDUCATION

REE K. ARNOLD; BS, Valparaiso University; MEd, Miami University Ohio; EdD, Columbia University
 VIRGINIA A. CROSSMAN; BS, Boston University; MA, Columbia University
 DOMENICA DESIDERIOSCIOLI; BS, MS, Brooklyn College, CUNY
 HENRY M. FERRIS; BA, Syracuse University; MA, New York University
 GEORGE A. HORN; BS, Albright College; MA, PhD, New York University
 LEONARD K. LUCENKO; BA, Temple University; MA, New York University; PhD, University of Utah
 ANN R. MC CONNELL; BS, Cortland State Teachers College; MS, SUNY; EdD, Syracuse University
 GAIL REIKEN; BS, Brooklyn College, CUNY; MS, Pennsylvania State University
 JOAN SCHLEED; BS, MA, EdD, New York University
 TIMOTHY F. SULLIVAN; BS, Cortland State Teachers College; MS, Ithaca College
 MARILYN TAIGIA; BS, Panzer College; MA, Columbia University
 RICHARD W. TEWS; BS, LaCrosse State Teachers College; MA, State University of Iowa; PhD, New York University
 JOSEPH TOTH; BS, University of Akron; MEd, Kent State University; EdD, Colorado State College

RECREATION

HAROLD J. NOLAN; BA, J. F. Kennedy College; MA, Montclair State College; PhD, University of Utah
 WAYNE R. MILLER; BS, PhD, University of Maryland; MS, Indiana University
 H. JEAN WOLCOTT; BA, Lehman College

NEW JERSEY SCHOOL OF CONSERVATION

REGINE M. KELLY; BA, MA, Trenton State College
 JOHN J. KIRK; BS, Boston University; MA, PhD, University of Michigan
 JAMES K. MERRITT; BA, Trenton State College; MA, Glassboro State College
 LEAH POWERS; BS, Taylor University; MA, Montclair State College
 JERRY T. SCHIERLOH; BS, West Michigan University; MS, Purdue University

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

ANTHROPOLOGY

JAMES BOYLAN; BA, MA, PhD, Wayne State University
 KENNETH H. BROOK; BA, MA, Hunter College; PhD, City University of New York

DOROTHY K. CINQUEMANI; BA, University of New Mexico; PhD, Columbia University
 MARCHA P. FLINT; BA, Hunter College, MA, New York University; PhD, City University of New York
 RICHARD W. FRANKE; BA, PhD, Harvard University
 HARRIET M. KLEIN; BA, University of Chicago; PhD, Columbia University

BERTHA B. QUINTANA; BA, Upsala College; MA, EdD, New York University
 MAURIE SACKS; BA, Queens College, CUNY; PhD, Columbia University

COMMUNICATION SCIENCES & DISORDERS

JOSEPH S. ATTANASIO; BA, MA, Montclair State College
 ELAINE BARDEN; BA, Douglass College; MA, Seton Hall University; PhD, Columbia University
 GERARD CARACCIOLO; BA, MA, Montclair State College; EdD, Teachers College, Columbia University
 GILBERT LEIGHT; BSED, City College of New York; MA, PhD, Columbia University
 MICHAEL LINDENMAN; BA, Trenton State College; MA, Teachers College, Columbia University
 NAOMI SCHIFF; BA, Barnard College; MA, PhD, Teachers College, Columbia University
 HAROLD SCHOLL; BBA, MBA, City University of New York; EdD, Teachers College, Columbia University
 TERRY D. SCHON; BS, Bowling Green State University; MA, Hunter College, PhD, Syracuse University
 EDWARD SHULMAN; BA, Western Michigan University; MS, University of Minnesota; PhD, University of Iowa
 GERALD WOOLF; BS, City College of New York; MA, University of Pittsburgh; PhD, New York University

ECONOMICS

SURESH A. DESAI; BA, MA, LLB, PhD, Gujarat University (India); MA, PhD, University of California at Los Angeles
 HAROLD FLINT; BA, Western Kentucky; MA, PhD, Southern Illinois University
 JAGADISH GURIA; B STAT, M STAT, Indian Statistical Institute; MA, PhD Boston University
 HUMPHREY O. HUSBANDS; BBA, Bernard M. Baruch College; MA, Hunter College
 SIDNEY J. KRONISH; BS, MA, New York University; PhD, Yeshiva University
 DENNIS O'NEILL; BA, MA, PhD, University of Cincinnati
 MARGARET REILLY-PETRONE; BA, Immaculate Heart College; MA, PhD, Fordham University
 FRANCES SCHER; BA, Smith College, MA, Columbia University
 SERPIL SISIK-LEVEEN; BA, University of Ankara (Turkey); MA, Southern Illinois University; PhD, New York University

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

HOWARD R. BALLWANZ; BS, MS in Ed., Northern Illinois University
 JEFRAND P. BOUCHER; BA, MA, Colorado University
 SOPHIA G. HINSHALWOOD; BA, Central College, MA, University of Georgia
 V. AUGUSTUS RENTSCH; BA, Adrian College; MA, Montclair State College; PhD, University of Michigan
 DAVID K. ROBERTSON; BA, University of Michigan, MS, EdD, Rutgers University
 JARBANS SINGH; BA, Government College (Rupar, India); MA, Punjab University (India); MA, PhD, Rutgers University
 OLAF STERNBERG; BA, Ursinus College; MA, Clark University; PhD, Syracuse University
 ROBERT W. TAYLOR; BA, Washington University; MA, EdD, St. Louis University

HISTORY

CHARD J. BARKER; BA, University of Rochester; MA, Duke University

ROBERT R. BECKWITH; BA, Montclair State College, MA, PhD, Columbia University

JOHN I. BELL; BA, MA, Montclair State College
 GEORGE C. BRETHERTON; BS, MA, PhD, Columbia University

JAMES P. KEENEN III; BA, MA, Montclair State College; EdD, Columbia University

WALTER E. KOPS; BA, MA, Montclair State College

PETER F. MACALUSO; BA, St. Bonaventure University, MA, Seton Hall University; PhD, New York University

JOSEPH T. MOORE; BS, EdD, Rutgers University, MA, Montclair State College

LOIS A. MORE; BA, MA, Montclair State College; EdD, Columbia University

MWANGI WA-GITHUMO; BA, Wayne State University; MSc, City University of New York; PhD, New York University

J. KENNETH OLENIK; BBS, John Carroll University; MA, PhD, Cornell University; MA, Seton Hall University

PETER PASTOR; BS, City College of New York; MA, PhD, New York University

HELEN ROYER; BA, MA, Bucknell University; PhD, Pennsylvania State University

JOEL SCHWARTZ; BA, MA, PhD, University of Chicago

AMY SREBNICK; BA, MA, University of Wisconsin

SHARON L. WYATT; BA, MA, University of Mexico; PhD, University of Florida

LOUIS B. ZIMMER; BS, State University of New York at Cortland; MA, PhD, New York University

POLITICAL SCIENCE

HARRY BALFE, II; BA, Trinity College; MA, American University; JD, Catholic University

WILLIAM M. BATKAY; BA, Fordham; MA, PhD, Columbia University

WILLIAM S. BERLIN; BA, Brooklyn College; MA, George Washington University; PhD, Rutgers University

SYLVAN FELDSTEIN; BA, Columbia University; MS, City University of New York; PhD, Columbia University

GILBERT O. HOURTOULE; BA, Montclair State College, MA, Stanford University; PhD, Pennsylvania State University

EDWARD W. JOHNSON; BA, Rutgers University, MA, New School for Social Research; PhD, New York University

LUCINDA LONG; BA, Mary Washington College, MA, PhD, Johns Hopkins University

GEORGE I. MENAKE; BA, St. Peter's College, MA, St. John's University; PhD, New York University

CHARLES M.B. UTETE; BS, University of London, MA, Tufts University; MA, PhD, Carleton University

PSYCHOLOGY

EDWARD ARONOW; BA, Queens College, CUNY; MA, PhD, Fordham University

IRWIN J. BADIN; BA, Long Island University; PhD, New York University

MARTIN BROWN; BS, City University of New York, MA, Columbia University; EdD, Rutgers University

LEONARD J. BUCHNER; BA, Montclair State College; PhD, Columbia University

JOAN CHEL; BA, National Taiwan University, MA, PhD, Teachers College, Columbia University

ROBERT A. CICERONE; BA, Upsala College; MA, Temple University; PhD, University of Maine

RICHARD D. DRAPER; BA, Kalamazoo College; MS, PhD, Purdue University

WALTER R. DURYEA; BA, Rutgers University, MA, University of Connecticut; PhD, Florida State University

MARK J. FRIEDMAN; BA, Colgate University; MS, PhD, Purdue University

STEPHEN M. FRIEDMAN; BA, College of William and Mary; MA, PhD, University of California

MARGARITA GARCIA; BS, MA, PhD, Columbia University

VICTOR C. GARIBALDI; BS, City University of New York; MA, New York University; MS, Yeshiva University
 HERBERT J. HAUER; BA, PhD, New York University; MA, Columbia University
 EDWARD J. HAUPT; BAE, University of Minnesota, PhD, New York University
 THERESE M. HERMAN; BA, New York University; PhD, New School for Social Research
 CHRISTINE D. HOOVER; BA, MS, PhD, Fordham University
 MARK A. KOPPEL; BA, Columbia University; MA, PhD, Northwestern University
 DORIS R. KRAEMER; BA, Rutgers University; MA, Columbia University; PhD, Yeshiva University; Diplomate in Clinical Psychology
 MOIRA K. LEMAY; BS, Queens College; MS, PhD, Pennsylvania State University
 PAUL J. LOCHER; BS Ed, Kutztown State College; MS, PhD, Temple University
 AGNES O'CONNELL; AB, Douglass College; MS, PhD, Rutgers University
 SHARON OLSON; BA, DePauw University; MA, PhD, New School for Social Research
 THOMAS BIDDLE PERERA; AB, MA, PhD, Columbia University
 GEORGE S. ROTTER; BA, Brooklyn College; PhD, New York University
 JEROLD S. SCHWARTZ; BA, University of Pennsylvania; MA, PhD, Yeshiva University
 JEROME M. SEIDMAN; BS, MS, Rutgers University; PhD, New York University
 JOHN SEYMOUR; BS, William Paterson; MA, PhD, New York University
 ROLAND J. SIITERI; BA, Northwestern University; MA, Xavier University; PhD, Purdue University
 IRA R. SUGARMAN; BA, New York University; MS, PhD, Columbia University
 DAVID J. TOWNSEND; BA, University of Michigan; MA, PhD, Wayne State University
 RHODA K. UNGER; BS, Brooklyn College; MA, PhD, Harvard University
 DANIEL E. WILLIAMS; BA, Seton Hall University; MS, PhD, St. John's University
 PETER F. WORMS; BBA, MS, City College of New York; EdD, Rutgers University

SOCIOLOGY

DAVID N. ALLOWAY; AB, Muhlenberg College; MA, Columbia University; PhD, New York University
 BARBARA CHASIN; BA, The College of the City of New York; PhD, University of Iowa
 PETER FREUND; BA, University of Maryland; MA, Queens College; PhD, New School for Social Research
 LAURA K. GORDON; BA, University of Michigan; MA, PhD, State University of New York at Stony Brook
 BENJAMIN F. HADIS; Licenciatura, University of Buenos Aires; MA, University of California, Los Angeles; PhD, University of California, Los Angeles
 BYONG-SUH KIM; BA, Eckerd College; MTh, Princeton Theological Seminary; PhD, Emory University
 GILBERT KLAJMAN; BA, Brooklyn College; MA, Brandeis University
 EDITH KURZWEIL; BA, Queens College; MA, PhD, New School for Social Research
 JAY LIVINGSTON; BA, Brandeis University; PhD, Harvard University
 GEORGE T. MARTIN; BA, Vanderbilt University; MA, PhD, University of Chicago
 MEREDITH B. McGuIRE; BA, Eckerd College; MA, PhD, New School for Social Research
 SAMUEL PRATT; BS, University of Connecticut; MA, Michigan State University; PhD, University of Michigan

LEONARD C. RUBIN; BS, Cornell University; MA, PhD, State University of New York at Stony Brook

PROFESSIONAL LIBRARY STAFF

RUTH BEACH; Assistant Periodicals Librarian; BA, Cedar Crest College; BLS, McGill University
 MARTHA-DELL COONEY; Reference Librarian; AA, Colby Junior College; AB, Syracuse University; MLS, Pratt Institute
 NORMA HAIMES; Reference Librarian; BA, Brooklyn College; MLS, Pratt Institute; MFA, Brooklyn College
 BLANCHE W. HALLER; Director of Library Services; BA, Brooklyn College; BS in LS, Columbia University
 SELMA S. HARRIS; Reference/Archives; BBA, Woodbury College; BA, Mexico City College; MLS, Rutgers University
 LAWRENCE KIRSCHENBAUM; Reference/Interlibrary Services Librarian; BS, City College of New York; MLS, Columbia University
 LAURA N. LEVY; Catalog Librarian; BA, Brooklyn College; MLS, Pratt Institute
 DOROTHY O'CONNOR; Circulation Librarian; BS, Fordham University; MS in LS, Columbia University
 ROBERT J. RICHARDSON; Non-Print Media Librarian; AB, William Jewell College; MA, Michigan State University; MLS, Western Michigan University
 PATRICIA D. SANDERS; Coordinator of Reference Services; BA, Marywood College; MLS, Rutgers University
 MARIAN SIEGELTUCH; Assistant Director for Public Services; BA, George Washington University; MLS, Rutgers University
 NORMAN STOCK; Collections Development Librarian; BA, Brooklyn College; MLS, Rutgers University; MA, Hunter College
 JUDY J. ULMER; Administrative Assistant; BA, Douglass College; MLS, Rutgers University
 ELEANOR VIVIANI; Catalog Librarian; BA, Rutgers University; MLS, Pratt Institute
 ALBERT WANG; Periodicals Librarian; BEd, Taiwan Normal University; MEd, SUNY; MLS, Drexel University; Sixth Year Certificate in Information Science, Rutgers University
 RUTH WANG; Head Catalogue Librarian; BA, National Center University of China; MLS, Rutgers University
 JOYCE WILOWATYJ; Reference/Government Documents Librarian; BA, Montclair State College; MLS, Pratt Institute
 ZDENKA WINTERS; Assistant Director for Technical Services; MLS, Charles University of Prague
 PAULINE YEH; Acquisitions Librarian; MALS, University of Michigan

PROFESSORS EMERITI

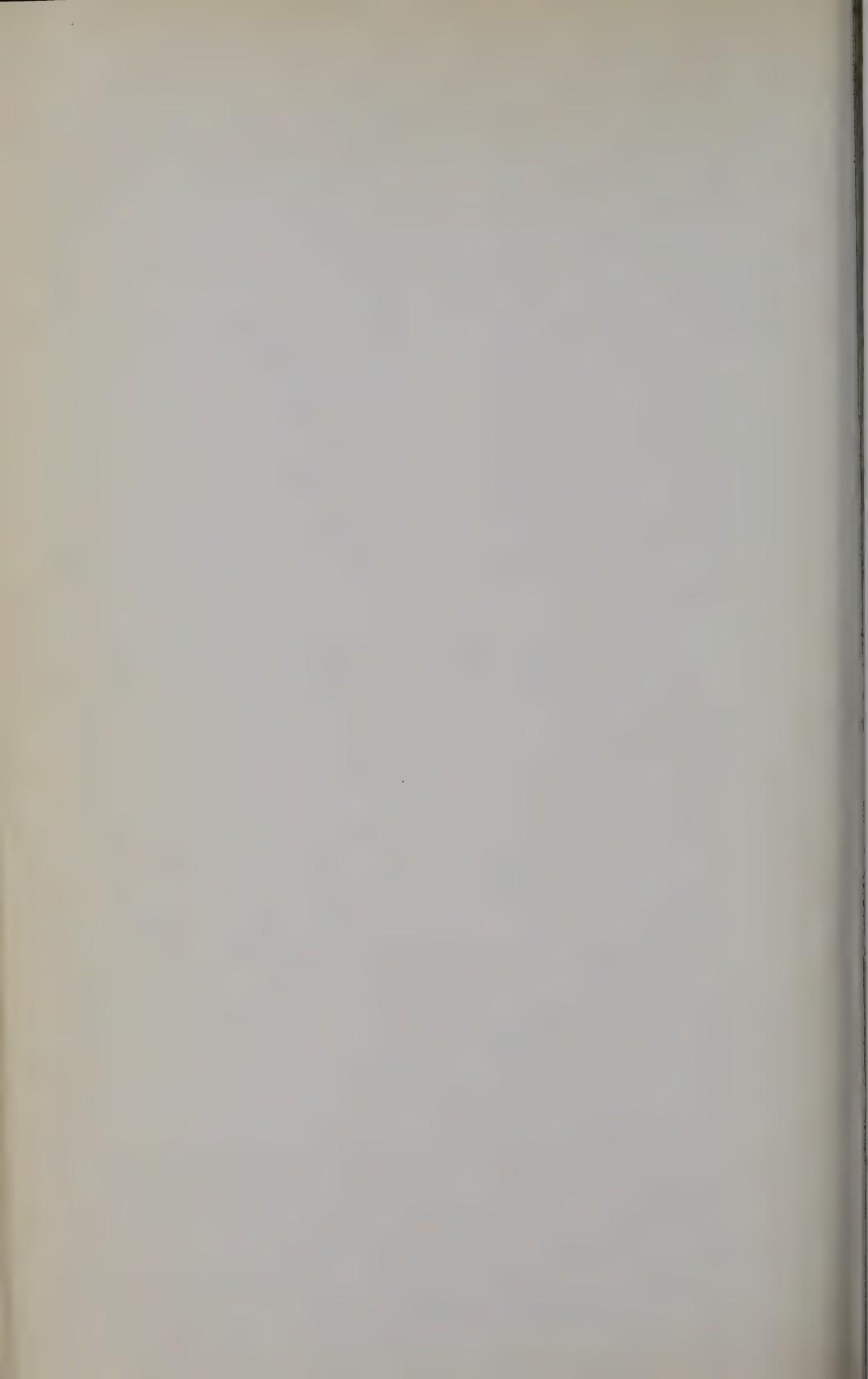
EDWARD J. AMBRY, Professor Emeritus of Education; BS, Newark State College; MA, New York University; PhD, Southern Illinois University.
 HAROLD C. BOHN, Professor Emeritus of English; BA, Hamilton College; MA, Harvard University; EdD, Columbia University
 LILLIAN A. CALCIA, Professor Emerita of Fine Arts; BS, MA, Columbia University; EdD, New York University
 ARTHUR H. CHRISTMANN, Professor Emeritus of Music; Dip. and Post Graduate Dip., Juilliard School of Music; BS, MA, Columbia University; SMD, School of Sacred Music, Union Theological Seminary
 PAUL C. CLIFFORD, Professor Emeritus of Mathematics; BA, Columbia College, Columbia University; MA, Columbia University
 ALDEN C. CODER, Professor Emeritus of Health and Physical Education; BA, Juniata College; MED, University of Pittsburgh; EdD, Boston University
 LAWRENCE H. CONRAD, Professor Emeritus of English; BA, MA, University of Michigan
 GERT DANIELS, Professor Emeritus of Biology; BA, MA, University of Texas; EdD, Columbia University

- DAVID R. DAVIS, Professor Emeritus of Mathematics; BA, MA, Indiana University; PhD, University of Chicago
- EARL C. DAVIS, Professor Emeritus of Psychology, BS, State Teachers College, West Chester, Pennsylvania; MS, University of Pennsylvania; PhD, New York University
- JEROME G. DeROSA, Associate Professor Emeritus of Physical Education; BS, Panzer College; MA, Montclair State College
- STEVEN C. EARLEY, Professor Emeritus of English; BA, Lebanon Valley College; MA, Columbia University; PhD, University of Geneva
- EMMA FANTONE, Associate Professor Emerita of Audio-Visual Education; BA, MA, Montclair State College
- ERNEST B. FINCHER, Professor Emeritus of Political Science; BA, Texas Technological College; MA, Columbia University; PhD, New York University
- L. HOWARD FOX, Professor Emeritus of Speech and Theater; BA, Temple University; MA, Northwestern University; PhD, New York University
- M. HERBERT FREEMAN, Professor Emeritus of Business Studies; BS, MA, PhD, New York University
- PAUL E. FROELICH, Professor Emeritus of Business Studies; BA, BD, Anderson College; MA, Columbia University; EdD, New York University
- EDWIN S. FULCOMER, Professor Emeritus of English; BA, Albright College; MA, EdD, Columbia University
- HOWARD L. HAAS, Professor Emeritus of Business Studies; BS, Trenton State College; MEd, EdD, Rutgers—The State University
- RUSSELL HAYTON, Assistant Professor Emeritus of Music; BMus, Chicago Conservatory; BMus in Ed, Roosevelt College; MSM, Union Theological Seminary
- EMIL KAHN, Assistant Professor Emeritus of Music; AM, Goethe Gymnasium, Frankfurt, Germany, Maturum; Dr. Hoch Konservatorium, Frankfurt, Germany; University of Frankfurt, Germany
- MATHILDA KNECHT, Professor Emerita of Linguistics; BA, Montclair State College; MA, Columbia University
- EDITH LENEL, Professor Emerita of German; MA, Dr. Phil., University of Konigsberg; MS, Columbia University
- CHARLOTTE LOCKWOOD, Associate Professor Emerita of Fine Arts; BA, College of William and Mary; BS, Newark State College; MA, Columbia University
- ORPHA M. L. IUTZ, Professor Emerita of Psychology; BS, MS, Kansas State University; PhD, New York University
- HARLEY P. MILSTEAD, Professor Emeritus of Geography; BA, Illinois State Normal University; MA, PhD, Clark University
- WARD MOORE, Professor Emeritus of Music; BMus, Illinois Wesleyan University; MMus, University of Michigan; MA, EdD, Teachers College, Columbia University
- ALLEN MORIOTTI, Provost Emeritus; BA, MA, Montclair State College; EdD, Columbia University
- DOROTHY MORSE, Professor Emerita of Music; BA, MA, Carnegie Institute of Technology; PhD, New York University
- EARL MOSIER, Professor Emeritus of Education; BA, Hope College; MS, PhD, University of Michigan
- E. DEALTON PARTRIDGE, President Emeritus; BS, Brigham Young University; PhD, Columbia University; Ed.D, Montclair State College
- EARL C. PECKHAM, Professor Emeritus of Education; BA, Wesleyan University; MA, EdD, Columbia University
- JAMES P. PETTERGROVE, Professor Emeritus of English; BA, Bowdoin College; BA, Oxford University; MA, Harvard University
- DOROTHY PREISING, Associate Professor Emerita of Music; BS, MA, Columbia University; Diploma, Juilliard School of Music; Advanced Study (Nadia Boulanger)
- JOHN J. REILLY, Professor Emeritus of Social Sciences; Dip., Wisconsin State Teachers College; BA, MA, University of Wisconsin; PhD, New York University
- CHARITY E. RUNDEN, Professor of Psychology Education; BA, MA, Ball State University; MS in PHl, University of North Carolina; PhD, Indiana University
- DORIS RUSLINK, Professor Emerita of Home Economics; BS, University of the State of New York (Buffalo); MA, PhD, New York University
- MARION SCHIEBEL, Associate Professor Emerita of Fine Arts; BA, Brooklyn College; MA, Teachers College, Columbia University
- KENNETH ORVILLE SMITH, Professor Emeritus of Physics; BA, Cornell College; MA, PhD, University of Illinois
- RALPH VERNACCHA, Professor Emeritus of Fine Arts; BA, San Diego State College; MA, Teachers College, Columbia University
- HAZEL WACKER, Professor Emeritus of Health and Physical Education; BPe, Panzer College; MA, Montclair State College; EdD, New York University

INDEX

About the College	1
Academic Advisement	18
Academic Furlough	21
Academic Regulations	17
Accreditation and Memberships	1
Administrative Sciences	184
Admissions	8
Adult Continuing Education	32
Adult Education Resource and Service Center	23
Advanced Placement	10
Alumni Association	23
Anthropology	240
Archaeology Minor Program	6
Athletics	23
Attendance Policy	18
Audit Policy	17
Basic Skills	16
Biology	151
Business and Distributive Education	193
Campus Community Program	4
Cancellation of Courses	17
Career Services	23
Chemistry	158
Classics	96
Class Standing	21
CLEP	10
Communication Sciences and Disorders	245
Computer Center	24
Computer Science	165
Conduct and Discipline	20
Cooperative Education	4
Counseling, Human Services and Guidance	43
Credit by Examination and Experience	10
Credit Load	17
Curriculum and Teaching	32
Degrees Offered	2
Degree Requirements—Undergraduate	13
Economics	248
Education and Community Services, School of	31
Educational Foundations	37
Educational Opportunity Fund	4
Educational Leadership	38
Employment on Campus	23
English	102
Environmental Studies	251
Environmental, Urban and Geographic Studies	251
Faculty	288
Final Examinations	18
Financial Aid for Students	12
Financial Support for the College	2
Fine and Performing Arts, School of	45
Fine Arts	46
Foreign Students	9
French	111
Geography/Urban Studies	252
Geoscience/Physics	171
German	118
Goals	2
Governance	1
Grades	18
Graduate Level Courses	21
Health Professions	199
Health Services	24
History	259
History and Governance	1
Home Economics	204
Honors	20
Housing	24
Humanities, School of	95
Independent Study	19
Industrial Education and Technology	214
International Education, Center for ...	4
Intra-Collegiate Academic Programs	4
Italian/Spanish	137
Latin	97
Law Enforcement Education Program	4
Librarians	295
Library	24
Linguistics	125
Mathematics	164
Mathematics and Science, School of	151
Media Center	23
Minorities Culture Requirement	16
Music	63
New Jersey School of Conservation	238
Organizations	29
Paralegal Studies Minor	7
Parking Facilities	26
Part-Time Programs	3
Philosophy/Religion	129
Physical Education	221
Physical Education Requirement	17
Physics/Geoscience	171
Plagiarism	20
Political Science	268
Probation	21

Professional Arts and Sciences,	
School of	183
Psycho-Educational Center	26
Psychological Counseling	26
Psychology	273
Recreation Professions	231
Refund and Withdrawal Policies	10
Registration	17
Religion/Philosophy	130
Religious Facilities and Programs	27
Remediation Programs	27
Requirements	13
Residence Requirements	18
ROTC	27
Russian	118
Scholarships and Awards	12
Second Baccalaureate	9
Second Careers Program	4
Security and Safety	25
Services and Facilities	23
Social and Behavioral Sciences,	
School of	240
Sociology	280
Spanish/Italian	137
Speech and Theater	79
Student Affairs and Activities	29
Student Center	28
Student Personnel Services	28
Student Services	23
Summer Session	22
Theater and Speech	79
Transcripts	20
Transcultural Studies	265
Tuition and Fees	10
Undergraduate Programs	2
Upward Bound	5
Urban Studies/Geography	252
Veterans	9
Visiting Students	22
Weekend College	4
Withdrawal	10
Women's Center	5
Women's Studies, Minor in	5



FALL SEMESTER 1979

August 27, 28, 29	Registration/Orientation Evening Registration August 27, 28.
September 4	Classes begin
September 4-November 21	Classes. Classes on November 21 will meet until the regular close of the college day.
November 22-25	Thanksgiving Holiday
November 26-December 16	Classes
December 17-23	Examination Period
December 24-January 1	Christmas Holiday

WINTER SESSION 1980

December 27	Late Registration
January 2-18	Classes. Classes will be held Saturday 1/5/80 and 1/12/80. Classes will meet on 1/15/80.

SPRING SEMESTER 1980

January 14, 16, 17	Registration Evening Registration January 14, 16. If the college is closed because of bad weather during this period, registration schedule moves forward by one day.
January 23-March 30	Classes
March 31-April 6	Spring Recess
April 7-May 16	Classes. Classes on April 7 begin at 8 a.m.
May 17-23	Examination Period
May 28, 3:30 p.m.	Commencement. Rain Date May 29.

SUMMER SESSION 1980

June 2-13	Pre-Summer Session
June 9-10	Registration
June 16-August 7	Eight Week Evening Classes
June 30-August 8	Six Week Classes
July 4	Holiday
August 11-22	Post-Summer Session

THE COLLEGE RESERVES THE RIGHT TO MODIFY THIS CALENDAR.

 OFFICE OF ADMISSIONS
Montclair State College

UPPER MONTCLAIR, N.J. 07043

Return Requested

FOURTH CLASS BOOK RATE



MONTCLAIR STATE UNIVERSITY



3 3000 01007 105 9

465438833

REF LD 3780 .N3 A12

**Montclair State College
undergraduate catalogs**

